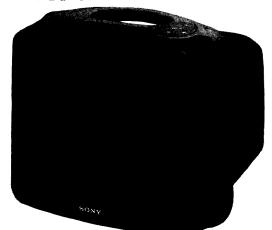
KV-M1120

RM-828

SERVICE MANUAL

AEP Model Chassis No. SCC-F70A-A





MODELS OF	F THE SAME SERIES
KV-M1120	

[KV-M1120]

SPECIFICATIONS

Television system. Colour system.

B/G/H/I/L

PAL, SECAM, NTSC3.58, NTSC4.43

Channel coverage. [B/G/H]. VHF: E2-E12 UHF: E21-E69

ITA VHF A-H2 (C), UHF 21-69

CATV (1): S1-S41

CATV (2): S01-S05, M1-M10, U1-U10

[I]. VHF: A-J, UHF B21-B69 CATV: \$1-\$41, \$01-\$05

[L]. VHF: F2-F10, UHF: F21-F69

CATV: S01-S44

Picture tube. Trinitron tube.

Approx. 28 cm (11 inches)

(Approx. 26 cm picture measured

diagonally)

90°-degree deflection.

Y/C input: S connector.

2 Video input : Phono jack.

Audio input: Phono jack.

(R,G,B) 1 21 pin Euro connector.

Outputs. AV 21-pin connector: CENELEC standard

Headphone jack: minijack

Sound Output.

2.5W (Music Power)

Power Requirement.

220-240V AC

12-24V DC

Power consumption.

55 Wh

Dimensions.

Approx 296x261x329mm (w/h/d)

Weight.

Approx. 8.5 kg

Supplied accessories.

RM-828 Remote Commander (1)

AA size R6 batteries (2) Telescopic antenna (1)

DC Power cord (1)

AC Power cord (1)

[RM-828]

Remote control system infrared control.

Power requirements. 3V dc

2 batteries IEC designation

R6 (size AA)

Dimensions.

Approx. $55 \times 183 \times 18mm (w/h/d)$

Weight.

Approx. 130g (including batteries).

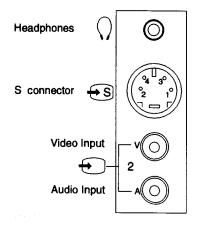
Design and specifications are subject to change without notice.



Inputs.

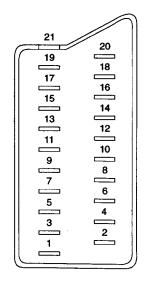


Connector Configuration



4 pin connector [+S]

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (Ssignal) input 1V±	3db 75ohm, positive Sync 0.3V
4 3	C(Ssignal) input 0.3V	± 3db 75ohm positive



21 pin connector (🖑 1.)

Pin No	1	Signal	Signal level
1	0	Audio output B (right)	Standard level : 0.5Vms Output impedance : less
			than 1 Kohm. *
2	0	Audio inout B (right)	Standard level : 0.5Vrms Input impedance : More than 10Kohm. *
3	0	Audio output A (left)	Standard level : 0.5Vrms Output impedance : less than 1 Kohm. *
4	0	Ground (audio)	
5	0	Ground (blue)	
6	0	Audio input A (left)	StAndard level : 0.5Vms Input impedance : more than 10Kohms. *
7	0	Blue input	0.7V +/- 3dB 75ohms positive
8	0	Function select (AV control)	High state (9.5 - 12 V): Part mode Low state (0 - 2 V): TV mode Input impedance: more than 10Kohms Input capacitance: Less than 2nF
9	0	Ground (green)	
10	0	Open	
11	0	Green	Green signal : 0.7V +/- 3dB 75ohms, positive
12	0	Open	
13	0	Ground (red)	
14		Ground (blanking)	
15	0	Red input	0.7V +/- 3dB. 75ohms. positive
15		(S signal) chroma inpu	t 0.3V +/- 3dB. 75ohms. positive
16	0	Blanking input (Ys signal)	High state (1 - 3 V) Low state (0 - 0.4 V) Input impedance : 75ohms
17	0	Ground (video output)	
18	0	Ground (video input)	
19	0	Video output	1V +/- 3dB. 75ohms. positive Sync : 0.3V (-3. +10dB)
20	0	Video input	1V +/- 3dB. 75ohms. positive Sync : 0.3V (-3. +10dB)
		Video Input /Y (S signal)	1V +/- 3dB. 75ohms. positive Sync: 0.3V (-3. +10dB)
21	0	Common ground (plus	g shield)

O connected

* at 20Hz - 20kHz

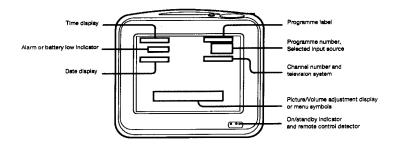
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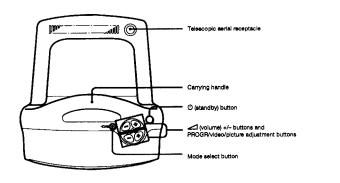
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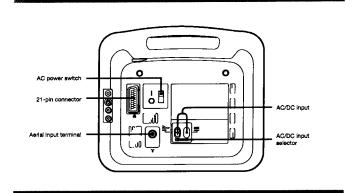
SAFETY RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARKED WITH \hat{L} ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

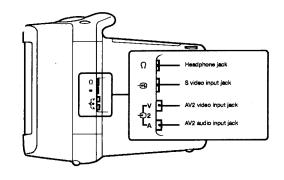
1-1 Identifying the Parts







Note: The symbols marked on the side of the TV correspond to the jacks that appear on the recessed rear of the TV.



1 Push to open the lid (rear of the Remote Commander.)



2 insert two size AA (R6) batteries to correct polarity.



3 Replace the lid.

Ġ



MENU

- With normal operation, betteries will last up to half a year. If the Remote Commander does not operate properly, the betteries might be exhausted. Replace all with new ones.
- · To avoid damage from possible battery leakage, remove the batteries when you will not be using the Remote Commander for a fairly long time.
- · Be sure that there are no obstructions between the Remote Commander and the TV.
- If you use a Remote Commander that is not recommended to operate this TV, or if you use the supplied Remote Commander to operate other equipment, the equipment may not operate properly.

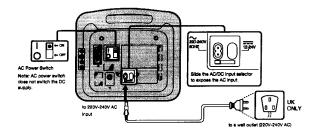
WARNING

Batteries may explode if mistrested. Do not recharge, disassemble or dispose of in fire.

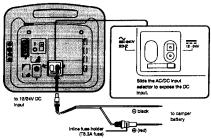
Chapter 1 - Preparing for Use

1-2 Setting up Your TV

To watch your TV at home, attach the supplied AC cord to the rear of the TV as shown below.



You can use the power from your mobile home battery by attaching the supplied DC power cord to the battery using appropriate battery clips (not supplied). There is no separate switch on the TV for DC supply.



Caution

- Do not connect the DC power to AC input or the AC power to the DC input.
- . If you connect the DC power cord to the AC power outlet the DC power cord fuse (T6.3A) will burn out. Replace fuse only with the same type.

Low Battery Power Warning

When the battery power falls below 12V, the TV displays a warning and automatically switches off after the warning has been displayed for 30 seconds. Disconnect the TV and recharge the battery before switching the TV

- For car use, the TV is designed to be used on negative ground, 12-24V DC.
- Use the supplied DC power cord manufactured by Sony. The polarity of other manufacturers' cords may be different.
- When you are not using the TV, disconnect the DC power cord. If you do not, battery power will be lost, even in standby mode.
- In hot temperatures, do not leave the TV in the car for a long time.



As your TV is likely to be used in locations away from home, two tuning methods have been provided:

Tuning home programmes

- running momes programmes
 For use at home you can preset up to 60 channels into programme position numbers (00-59). These channels are stored indefinitely in the TV's memory.

 Tuning away programmes
 For use away from home a simplified auto-tuning function is provided. with which you can present up to 40 channels (80-99). These channels are stored in a temporary memory in the TV, and will be retained for approximately 4 days if the TV is not powered up.

Tuning "HOME" Programmes

if using AC (household supply) ensure AC switch is on.

If the TV is in standby mode, turn on the TV by pressing one of the

On TV	On Remote Commander	
PROGR +/- On-Set button	PROGR +/-	
Standby On-Set button (TV button O	
	Number (0-9) button	

2 Press > on the Remote Commander while pressing . The tuning menu



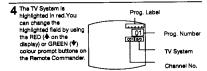
HOME TUNING MENU

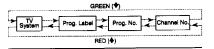
9

3 Press RED colour prompt button to select HOME () tuning mode.



A menu screen as shown will





Presetting Channels



To go back to the normal TV picture Press ☐ or press ♣ and ➾

For direct channel entry please Directly on page 12.

Selecting the Television System

1 When the TV System is highlighted in red, press YELLOW colour prompt button (+) to select the TV

Before step 2 please refer to table at bottom of this page.

01 (DATE) I L B/G A

2 Press RED colour prompt button (I) to select System I.
Press GREEN colour prompt button (L) to select System L.
Press YELLOW colour prompt button (B/G) to select System B/G. When the system has been selected, press BLUE colour prompt

3 Press BLUE colour prompt button (\$\Q\$) again to store the television system.



Presetting Channels Automatically

Press RED (\spadesuit on the display) or GREEN (\ref{P}) colour prompt buttons to highlight the Channel Number.

2 Press YELLOW colour prompt button (4) to select the Channel Number menu.

Press RED (backward) or GREEN (forward) colour prompt buttons to search for channels backwards or forwards respectively.



TV SYSTEM

This table indicates the tuning system used by the listed countries.

System B/G	Austria Belglum (B/H) Denmark Finland Germany Greece loeland Italy Luxembourg (*)	Monaco (*) Netherlands Norway Portugal Spain Sweden Switzerland Yugoslavia (B/H)
System L	France (*) Monaco (*) Luxembourg	
System I	Ireland United Kingdon	n

(") Luxembourg and Monaco can receive both Systems B/G and L.

3 When the required channel has been found, press BLUE colour prompt button (1) to return to the main HOME tuning menu.



4 Press RED (♣ on the display) or GREEN (♣) colour prompt buttons to highlight the Programme Number field in which the channel is to be stored.



5 Press YELLOW colour prompt button (J) to select the Programme Number menu.



6 Press RED (-) or GREEN (-) colour prompt buttons to decrement/increment the programme number respectively.

Alternatively, you can enter a new programme number by using the number buttons directly. (When using the number buttons to enter a programme number less than 10, it is necessary to first enter a "0" digit e.g., 90.

The YELLOW colour prompt button (Coo) can be used to clear the

7 After setting the required programme number, press BLUE colour prompt button (ft) to return to the main HOME tuning menu.



To go back to the normal TV picture

Press ○ or press ◆ and ◆ simultaneously.

8 Press BLUE colour prompt button (�) again to store.

Repeat steps 1 - 8 for other channels.

11

Presetting Channels



Skipping Programmes

channels).

You can skip over unprogrammed channels by pressing PROGR +/-during normal TV mode.

The procedure for presetting channels directly is the same as for

presetting channels automatically, but with the following exception. In the channel number menu press the number buttons to enter the channels directly. You can also use the YELLOW colour prompt button (C/S) to toggle between 'C-' and 'S-' type channels (off sir and cable

You can name a channel to be stored using five characters (letters or numbers). Using this function you can easily identify which channel you are watching.

Using the Home tuning menu Press RED (♣ on the display) or GREEN (♣) colour prompt button to highlight the Programme Identifier field and then press

YELLOW colour prompt button (4) to select it. The first character position in the Programme Identifier field will flash, indicating that this character can be



Press RED (-) or GREEN (+) colour prompt buttons to step down/up respectively through the available characters.

After setting the first character position correctly, press YELLOW colour prompt button ♦ to step on to the next character position to

be changed.

Repeat the above procedure until all five positions have been correctly set. (Note: when a *-- is shown in a character position, this will be displayed as a space *-- in normal TV mode).



3 After settling the programme identifier, press BLUE colour prompt button (it) to return to the main HOME tuning menu.



4 Press BLUE (♦) to store the new programme identifier.

To go back to the normal TV

picture
Press ○ or press ♠ and ◆



Channel information stored in AWAY mode is held In temporary memory and will be retained for approximately 4 days if the power cord is

Programme Identifiers are not available for AWAY channels.

To go back to the normal TV picture
Press ○ or press ♣ and ◆ simultaneously.

Tuning "AWAY" Programmes

 \P . While pressing the Φ (shift) button, press \Rightarrow to enter the tuning menu.



2 Press GREEN colour prompt button (48) to select AWAY tuning mode.



13

A menu screen as shown will appear. You can programme the channels into the programme numbers 60-99. The programme number displayed will be the first unprogrammed position available in the range 60-99

3 Press RED (f), GREEN (L) or YELLOW (B/G) colour prompt buttons to automatically tune and store the available channels.

Press RED colour prompt button for channels in system I.
Press GREEN colour prompt button for channels in system L. Press YELLOW colour prompt button for channels in system B/G (see table at bottom of page).

The SLUE colour prompt button (Coo) can be used to clear all programme positions from 60 to 99. To stop search, press .

You can skip over unprogrammed channels when you press PROGR + or PROGR - buttons during normal TV mode.

TV SYSTEM

This table indicates the tuning system used by the listed countries.

System B/G	Austria Belgium (B/H) Denmark Finland Germany Greece Iceland Italy Luxembourg (*)	Monaco (*) Netherlands Norway Portugal Spain Sweden Switzerland Yugoslavia (B/H)
System L	France (*) Monaco (*) Luxembourg	
System I	Ireland United Kingdom	

(*) Luxembourg and Monaco can receive both Systems B/G and L.

1-4 Setting Clock and Date

This is a 24 hour clock system.

1 Press MENU to enter the main function menu.



Note: If the Clock/Date has not been previously set or if the TV has been powered off for approximately 4 days, the menu screen shown in step 3 appears directly on pressing the MENU button.

2 Press BLUE (©) to select Time/Date mode.



3 Enter the Parental Code, If you preset for the first time or forget the current Parental Code enter the factory preset code "4489".



Time setting display appears.

4 Enter the time using the number buttons.



5 Enter the date using the number buttons. If you do not wish to change the date, press "TV" (O) to go back to the normal TV picture.

When the date has been entered, you will return to TV mode

If the parental lock (refer to page 22) code has been previously set you will be required to enter the correct parental lock code before being allowed to change the time and date.

If you have made a mistake Restart from the first step.

1-5 Setting the Security Code

The security code can be used as an anti-theft precaution. If the Security Code is active and the TV has been disconnected from the power supply (AC or DC), when the TV is next powered up you must re-enter the 6 number Security Code to view any programmes.

Press MENU to enter the main function menu.



2 Press GREEN colour prompt button (6) to select the lock functions menu.



3 Press GREEN colour prompt button (R on the display) again to select the security lock function.



4 If you preset for the first time enter the factory preset code "112093" otherwise, enter the current security code to enter the security lock menu.



5 Press YELLOW colour prompt button (?) to set your security lock code.



6 Enter a new security lock code (6 digits) using the number buttons.

Note: For security reasons, as numbers are entered they are displayed as "*" on the screen.



Setting the Security Code

7 After entering the new code enter the same code again.

Both entries must be the same otherwise you will be requested to try again.

After the second entry the security code menu appears.



8 Press RED colour prompt button (6) to engage the security lock.

Press GREEN colour prompt button (6) to disengage the security lock.

You will return to the TV mode automatically.

If security code is enabled and the TV has been disconnected from the power supply (AC or DC), when the TV is next powered up you must reenter the 6 number security code to view any programmes.



Three attempts at entering the security code will be allowed. If three successive incorrect codes are entered the TV will enter STANDBY mode and further attempts will not be allowed for approximately 4 - 5 minutes. As numbers are entered they will be displayed as "a" on the screen.

If you forget the security code you will need to return the set to the nearest Sony Service Centre so that the code can be reset. Therefore we strongly advise that you make a note of your code in the box below:



When leaving the factory the Security Code is preset to "112093"



9

5

Preset channels first, following the instructions given on pages 9-14.

If using AC (household supply) ensure AC switch is on. If the TV is in standby mode, turn on the TV by pressing one of the

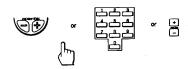
On TV	On Remote Commander
following buttons:	

On TV	On Remote Commander	
PROGR +/- On-Set button	PROGR +/-	
Standby On-Set button O	TV button O	
	Number (0-9) button	



If the TV set is in standby mode the LED indicator at the front of the set is red, otherwise the front LED is green.

2 Press PROGR +/- on the TV or Remote Commander, or press the 0-9 buttons to select the programme you want to watch.



Press -/-- first to select a double digit programme number. For example to select programme number 23, press -/--, 2 and 3.



Watching TV Programmes

To listen to the TV/video sound through headphones
Connect a headphone (not supplied) to the headphone jack at the side of the TV (see

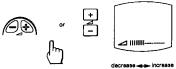
page 5).

To turn the TV off Press the standby button on either the TV or Remote Commander, the TV will go into

To turn the power off completely disconnect the power cord, or press the AC switch to "OFF" position. (AC mode only)

3 Press volume +/- on the TV or Remote Commander to adjust the volume.

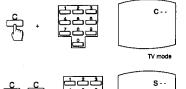
Press + to increase the volume. Press - to decrease the volume.



If you know the channel frequency number, you can tune a channel temporarily, without presetting.

Press "C" to select the mode you want to watch. (Press once to select regular TV mode; press twice to select cable TV mode.) Then press the number buttons (0-9) to select the channel. If you enter an incorrect channel number, the TV will briefly display "CXX" or "SXX" and ignore the

Note: You can receive the displayed channel but it will not be stored by





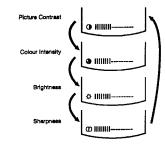
Cable mode

Use the picture adjustment feature to adjust the TV or video input picture to your requirement.

Press the picture adjust button (©)to enter picture adjustment mode.

Each press will change the selection to be adjusted.

Picture, colour, brightness, sharpness, (also hue – if receiving a NTSC



2 Press picture adjustment +/- to make the adjustment. + to increase the level, - to decrease the level.



The display will disappear automatically if no button is pressed for a



Restoring the Factory Preset Levels
To restore the factory preset levels, press *** (Reset) on the Remote Commander. To mute the sound, press 🕏 on the Remote Commander.

To restore the sound, press 🗱 sgain or 🚄 (volume +) on the Remote

Press Display on Screen on the Remote Commander to keep the current TV programme number or video mode displayed on the screen.



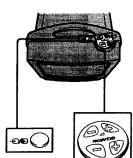
To cancel the display, press 🕒 again.

To display the time on the screen press ② (Clock) on the Remote Commander. On first display the DATE and SECONDS also appear.



To cancel the time display press @ (Clock) again.





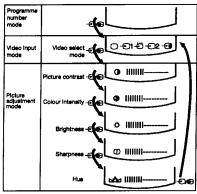
Hue is only available for NTSC colour

If the On-Set buttons are not pressed within 5 seconds the TV goes back to normal TV picture.

Operating TV using on-set buttons

Selecting video input and picture adjustment

Press the mode select button successively to select video mode or picture adjustment modes, i.e. video mode, picture, colour, brightness, sharpness.
Adjustment can then be made by the PROGR/-€/€--/+button.



if the mode select On-Set Button has not been pressed within the last 5 seconds (approx.) then the PROGR/-E/IE -/-button will recover its normal function of adjusting programme numbers.

To adjust the video mode using On-Set Buttons

To adjust any of the picture quality levels
The mode select button must be used to select the level to adjust, then
the PROGRY-©/® -/- will adjust the level.

1-10 Other Menu Features

You can use Parental Lock to prevent the TV being used by (for example) children between predefined times.

A parent can select a Lock "ON" time (e.g. 21:00) and a Lock "OFF" time (e.g. 08:00) such that during the period 21:00 - 08:00 access to programmes is denied unless a 4 digit "parental lock code" is entered.

1 Press MENU to enter the main function

(TIME) (DATE) D 0 0

2 Press GREEN colour prompt button (9) to select the lock functions menu.



3 Press RED colour prompt button (t) to select the Parental Lock function.



4 If you preset for the first time enter the factory preset code "4489" otherwise enter the current parental code to enter the Parental Lock menu.

Note: If you don't wish to set a new Parental Lock code go to step 8.



5 Press YELLOW colour prompt button (?) to set a new parental lock code.



6 Enter a new parental lock code (4 numbers) using the number buttons.

Note: For security reasons, as numbers are entered they are displayed as "+" on the screen.





Note: It is necessary to enter both parental lock ON and OFF times. If this is not done the previously set times will still be effective. If you should forget the set parental code, then the code "4489" will allow you access.

7 After entering the new code, enter the same code again. Both entries must be the same, otherwise you have to try again.

(TIME) (DATE) III

After the second entry, the parental code menu appears.

8 Press BLUE colour prompt button (©) to select the parental lock ON screen.
The previously set parental lock ON time

The previously set parental lock ON time appears.



9 Press the number buttons to set the parental lock ON time.

Note: You have to set the time using the 24 hour clock system. e.g. 7 p.m. is entered as 19:00.

After entering the parental lock ON time, the parental lock OFF screen appears. The previously set parental lock OFF time will be shown



10 Press the number buttons to set the parental lock OFF time.

After setting the parental lock OFF time you will be returned to the parental lock mean entered.

Press RED colour prompt button (8) to enable the parental lock.
Press GREEN colour prompt button (8) to disable the parental lock.
(Pressing either button will return you to the normal TV mode).



Other Menu Features

To stop Demo feature press any



Alarm clock
The TV must be either powered
on or be in standby mode for the
Alarm to operate.

To cancel alarm clock Press -/-- button in Step 3. The Demo feature consists of a series of On Screen Display demonstrations.

It begins with the Sony logo, followed by a list of the TV features and a run through of the various menu screens used.

1 Press MENU to enter the main function menu.



2 Press YELLOW colour prompt button (to access the "Demo" feature.

This TV has an alarm clock. The alarm will sound for one minute.

Press MENU to enter the main function menu.



2 Press RED colour prompt button (Q) to select the Alarm/Sleep functions menu.



3 Press RED colour prompt button (Q) to enter the Alarm Clock menu.

The time shown will be the previously set time.



To atop the alarm Press any button on the Remote Commander or on TV.

4 Press the number buttons to enter the Alarm time. You should enter the time using the 24 hour clock system. After entering the Alarm time you will be returned to the normal TV operating mode.



To switch off the timer Press RED in Step 4.

You can use the Sleep Timer to set a time after which the TV will be automatically switched into standby mode.

1 Press MENU to enter the main function menu.



2 Press RED colour prompt button (D) to select the Alarm/Sleep functions menu.



3 Press GREEN colour prompt button (©) to enter the Sleep Timer menu



- 4 Set the time duration using one of the following colour prompt buttons.
- Press RED (0) to disengage sleep timer if already set.
 Press GREEN (30) to set to 30
- minutes.
 Press YELLOW (60) to set to 60
- minutes.

 Press BLUE (?) to set any time you want up to 9 hours 59 minutes using the number buttons.

(TIME) (DATE) ٣

On entering this time you will be returned to normal TV operating mode.

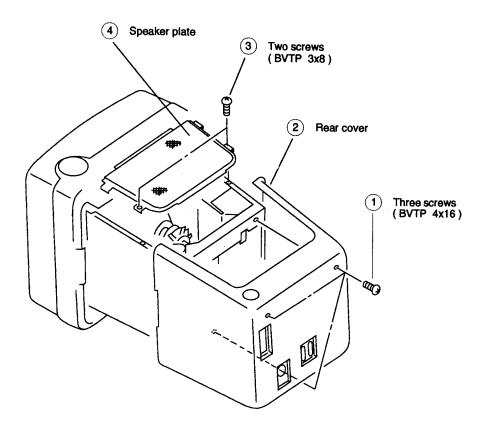
1-11 Troubleshooting

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, please contact your nearest service facility.

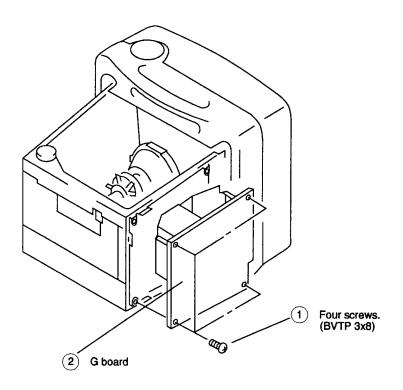
Symptom	Possible causes and remedies		
No picture (screen not III), no sound	Ensure the TV is plugged in. Check the serial connection. Check the TV/NDEO input setting. Turn the TV off for 3 or 4 seconds then turn it on again. Check AC power switch is ON. Check TV is on stand-by or not.		
Poor or no picture (screen not lit), good sound	Adjust the picture with the picture adjustment buttons. Adjust the telescopic serial.		
Good picture, no sound	Press the VOLUME + button on the TV or Remote Commander. Disconnect the headphones. If the mute symbol is displayed on the screen press the mute symbol on the remote commander or press VOLUME +.		
No colour for colour programmes	Adjust the colour with the colour adjustment buttons. Adjust the telescopic serial.		
Poor colour (DC operating mode)	Switch to 240V AC operation then return to DC operation.		
Snow and noise	Check that it is an active or correct channel. Check the cable satting. Check aerial/cable connections.		
Dotted lines or stripes	 This is often cause by local interference (for example cars, neon signs and hairdnyers). Adjust the telescopic aerial for minimum interference. 		
Double Images or ghosts	Reflections from nearby mountains or buildings often cause this problem. Connecting CATV cable may improve the picture.		
7	 Security lock is engaged, enter your current security lock code. If you incorrectly enter you security code 3 times the TV will enter STANDBY mode and further attempts will not be allowed for approximately 4-5 minutes. Should you forget the security code contact your negreat Sony Service Centre. 		
? b	Parental Lock is engaged, enter your current Parental Lock code.		
Try anoti	her channel. It could be station trouble.		

SECTION 2 DISASSEMBLY

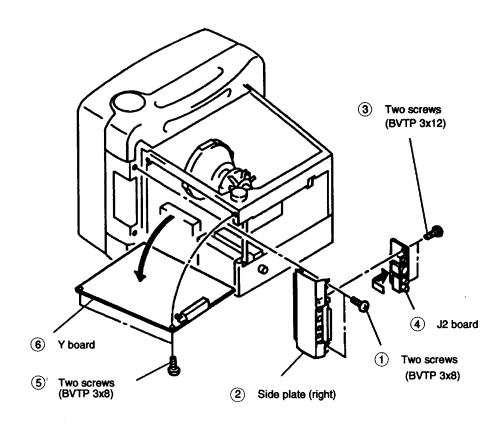
2-1. REAR COVER REMOVAL



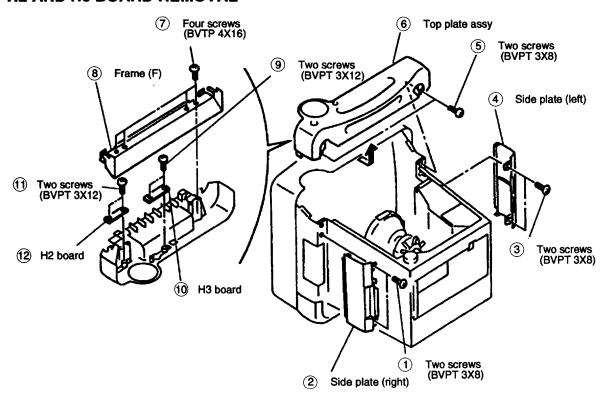
2-2. G BOARD REMOVAL



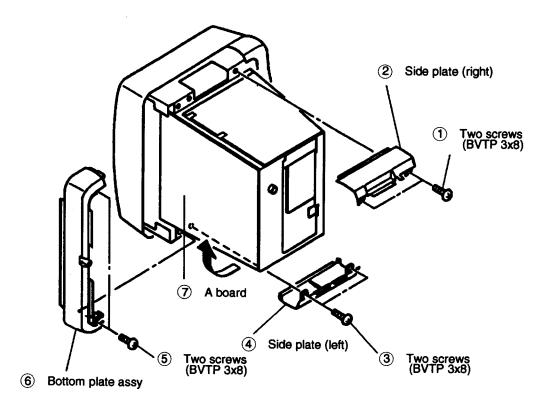
2-3. J2 AND Y BOARD REMOVAL



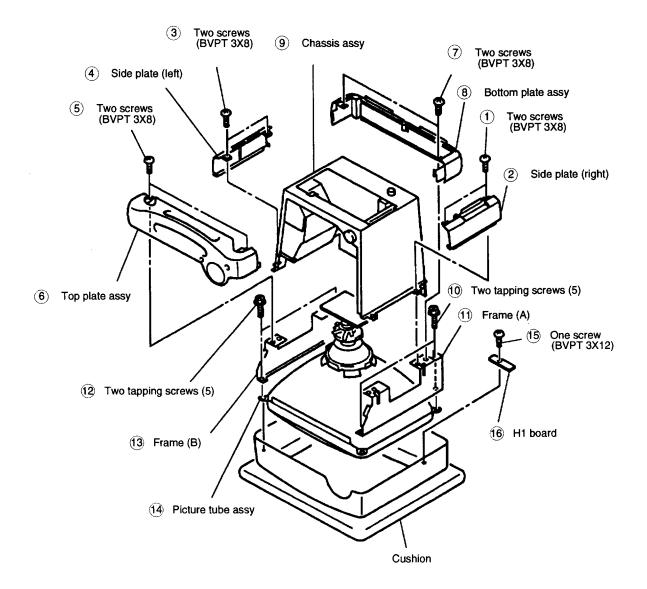
2-4. H2 AND H3 BOARD REMOVAL



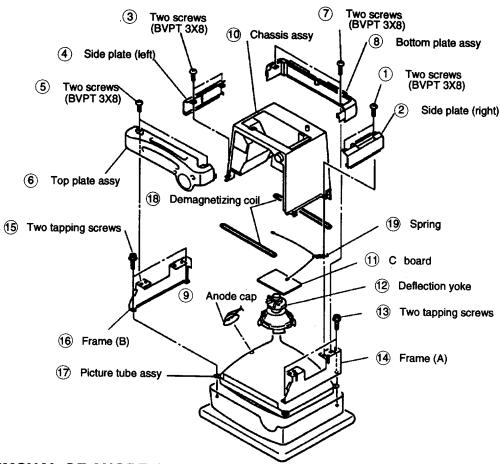
2-5. SERVICE POSITION



2-6. H1 BOARD REMOVAL



2-7. PICTURE TUBE REMOVAL



REMOVAL OF ANODE-CAP

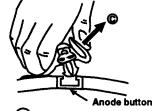
Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

* REMOVING PROCEDURES.



1 Turn up one side of the rubber cap in the direction indicated by the arrow a

2) Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)



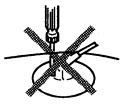
When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©

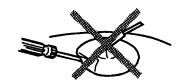
HOW TO HANDLE AN ANODE-CAP

- 1 Don't damage the surface of anode-cap with sharp shaped material!
- 2 Don't press the rubber hardly not to hurt inside of anode-caps!

A metal fitting called as shatter-hook terminal is built into the rubber.

3 Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or damage the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch below should be set as follows unless otherwise noted:

O CONTRAST control......80%(or Normal by commander)

♯ BRIGHTNESS control.....50%

Perform the adjustments in order as follows:

- 1. Beam landing
- 2. Convergence
- 3. Focus
- 4. Screen (G2) and White Balance

Note: Testing equipment required

- 1. Color bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope

Preparation:

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

Demagnetize with a degausser.

- 1. Input a raster signal with the pattern generator.
 - Contrast
 Brightness normal
- 2. Turn the raster signal of the pattern generator to red.
- 3. Move the deflection yoke backwards, and adjust with the purity control so that the red is in the centre and the blue and the green are at the sides evenly.
 - (see Fig. 3-1 through 3-3.)
- 4. Move the deflection yoke forward and adjust so that entire screen becomes red. (See Fig. 3-1.)
- Switch the raster signal to blue, then to green and verify the condition.
- 6. When the position of the deflection yoke is determined, fasten the deflection yoke with the screws.
- When landing at the corner is not correct, adjust by using disk magnets.

(See Fig. 3-4.)

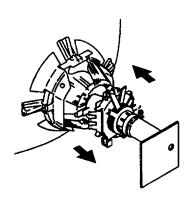


Fig. 3-1

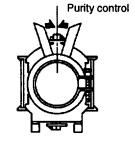


Fig. 3-2

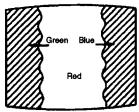
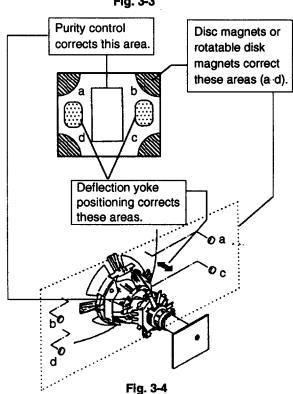


Fig. 3-3

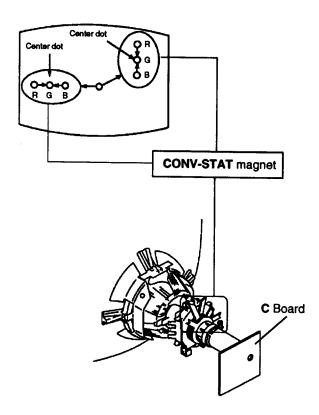


3-2. CONVERGENCE

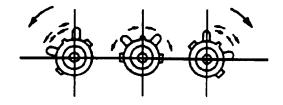
Preparation:

- Before starting, perform FOCUS, H.SIZE, and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.

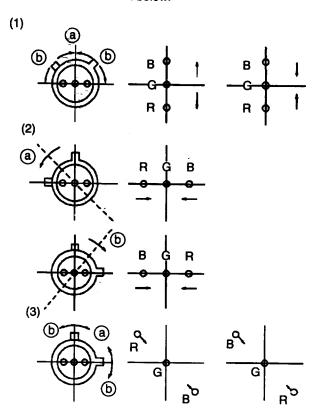
1) Horizontal and vertical static convergence



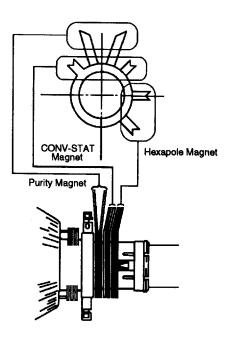
 Adjust CONV-STAT Magnet to coincide red, green and blue dots at the center of the screen.
 Tilt the CONV-STAT magnet and adjust the static convergence to open or close the CONV-STAT magnet.



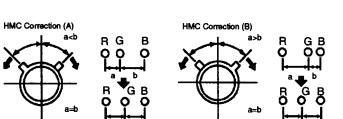
2. When the CONV-STAT magnet is moved in the direction of arrow (a) and (b), Red, Green and Blue dots move as shown below.



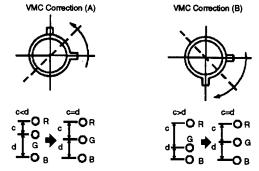
※ IF the red and green dots do not coincide with the blue dot, adjust with BMC(6-pole) magnet.



- HMC and VMC correction for BMC (6-pole) magnet.
- HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-pole) magnet.



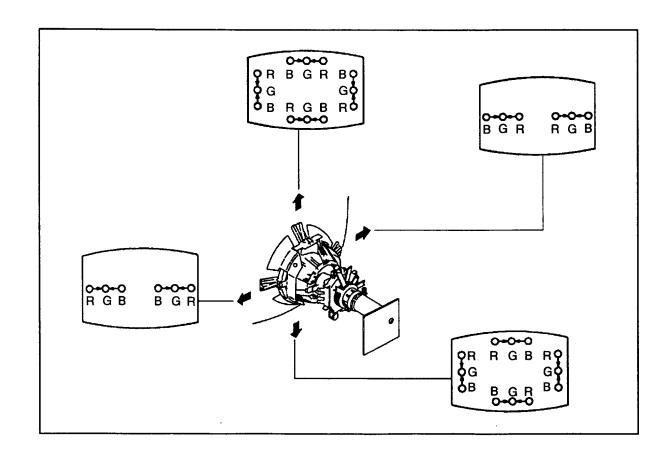
 VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-pole) magnet.



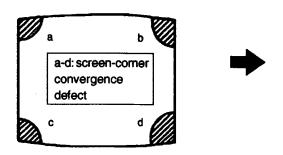
(2) Dynamic Convergence Adjustment Preparation :

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacers.

- 3. Move the deflection yoke for the best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



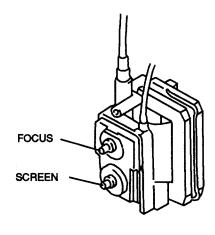
(3) Screen Corner Convergence.



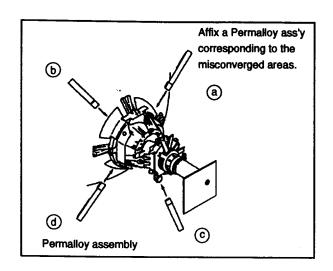
3-3. FOCUS.

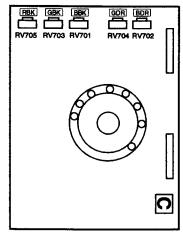
- Adjust the FOCUS control (located on the Fly-back transformer) for the best picture at the center and both sides of the screen.

3-4. SCREEN G2 SETTING.



- 1. Input a dot signal from pattern generator.
- 2. Set the picture brightness control to minimum.
- 3. Apply 150V DC to the cathodes KR,KB and KB of the CRT from an external power source.
- 4. While watching the picture adjust the SCREEN control (located on the Fly-back transformer) fully counter clockwise then slowly clockwise to the point where the picture just appears.





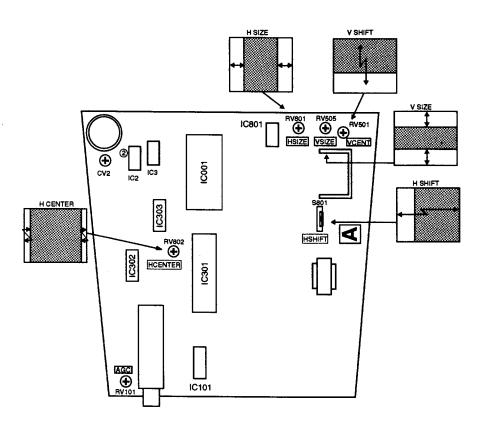
C BOARD (COMPONENT SIDE)

3-5. WHITE BALANCE.

- 1. Ensure that the SCREEN G2 setting is adjusted correctly before carrying out the following adjustments.
- 2. Input an all white signal from the pattern generator.
- 3. Turn all background VRs (RV701, RV703, RV705) to minimum.
- 4. Adjust the Blue and Green drive VRs (RV702, RV704) to the center of their range.
- 5. Turn picture to minimum using Remote Commander.
- 6. Increase RED background VR RV701 so that the RED is just visible.
- Increase BLUE background VR RV705 to obtain MAGENTA.
- 8. Increase the GREEN background VR RV703 to obtain OFF WHITE.
- 9. Set the picture to maximum using the Remote Commander.
- Observe the screen and adjust the drive VRs (RV702, RV704) for best WHITE BALANCE.
- 11. For best results repeat steps 2-10 several times.

SECTION 4 CIRCUIT ADJUSTMENT

4-1. A BOARD ADJUSTMENTS



A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (RV101)

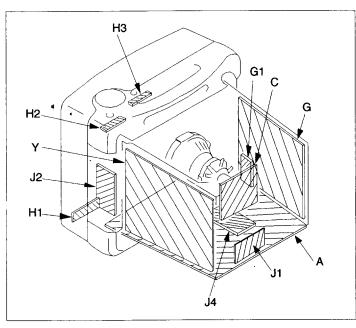
- 1. Align with an appropriate signal between stations.
- 2. Adjust (RV101 AGC VR) so that the snow noise and cross modulation just disappear from the picture.

REAL TIME CLOCK ADJUSTMENT (CV2)

Equipment Required : Frequency Meter capable of measuring to an accuracy of 1 Hz up to 35 KHz.

- 1. Ensure that the set is disconnected from the AC and DC power source.
- 2. Connect the probe of the Frequency Meter to pin 2 of IC2
- 3. Adjust CV2 for a meter reading of 32768Hz +/- 3Hz.

5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS - Conductor Side -

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.

 $k\Omega = 1000\Omega$, $M\Omega = 1000K\Omega$

Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/10W

: nonflammable resistor.

: fusible resistor.

: internal component.

- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V (volts).
- Readings are taken with a $10M\Omega$ digital multimeter.
- Readings are taken with a PAL color-bar signal input.

Reference information

RESISTOR : RN METAL FILM

> :RC **SOLID**

: FPRD NONFLAMMABLE CARBON

: FUSE NONFLAMMABLE FUSIBLE

: RS NONFLAMMABLE METAL OXIDE

: RB NONFLAMMABLE CEMENT

NONFLAMMABLE WIREWOUND

: RW COIL : LF-8L MICRO INDUCTOR

CAPACITOR :TA **TANTALUM**

: PS STYROL

: PP **POLYPROPYLENE**

:PT **MYLAR**

: MPS METALIZED POLYESTER

METALIZED POLYPROPYLENE : MPP

BIPOLAR : ALB

: ALT HIGH TEMPERATURE

: ALR **HIGH RIPPLE**

- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production
- Circled numbers are waveform references
- = : B+ bus. **-** : B- bus.
- signal path.

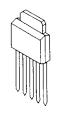
Note: The components identified by shading and marked nare critical for safety. Replace only with part number specified.

SEMICONDUCTORS

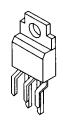
PCF 8583 SDA2546 RC4558P BA4558



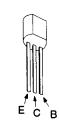
L78LR05DMA



SI-3120CA



D8LC20U D8LC20UR



JC501TP-Q JA101TP-Q

BF871

2SA1221-L

CXA1114P



TDA4661-V2 TDA8362-N3 TDA3843-V3



DM-45



D10SC4MR



2SC2688-LK

1 * (TOP VIEW)

ESAC25-04C



UPC1498H



LM78M08CV M5F78M12L UPC24M05HF UPC24M12HF L78M12CV

2SA1162-G 2SC2412K-QR DTA144EK DTC144ES 2SC3931-B-TX 2SC1623-L5L6 2SA1037K DTA124EK

2SD2096-EF

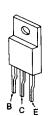
TDA1013B



RBV-406H-01



2SD1408-Y 2SA1329-0 2SD1761-E 2SA1328-Y



MA152WK DAN202K MA704WK



DIN20R DINL20 EQB01-35 RU-3AM ERC06-15S EGP20G RGP10G RGP15J



MTZJ-T-77-33A MTZJ-T-77-5.1B MTZJ-T-77-6.2B MTZJ-T-77-16B MTZJ-T-77-12B MTZJ-T-77-9.1B MTZJ-33A RD5.1ESB RD5.6ESB RD6.2ESB RD12ESB RD18ESB 1SS119 1SS119 1SS168 1SS238 1SS133T-77



U05G GP08DPKG23



2SC2785 2SA1175 JC501TP-Q 2SA1309A



BF199 BF959



BX-1393



2SC4833 2SC4876

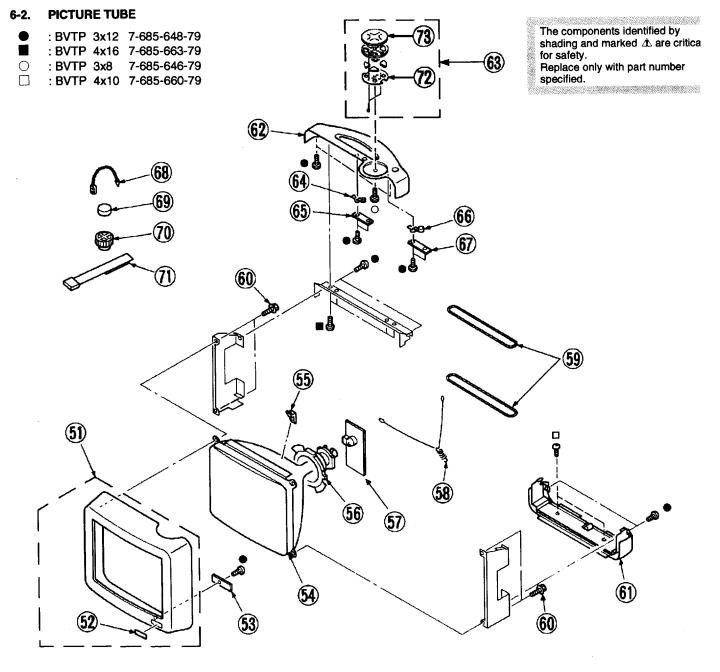


SPR-54MVW



1 ANODE RED 2 CATHODE 3 ANODE GREEN

CHASSIS : BVTP 3x12 7-685-648-79 : BVTP 4x16 7-685-663-79 : BVTP 3x8 7-685-646-79 18) (16)19 12 (24)



KV-M1100D **RM-818**

SERVICE MANUAL

AEP Model Chassis No. SCC-F04A-A



EE-1 CHASSIS

MODELS OF TH	E SAME SERIES
KV-M1100D	KV-M1100E
KV-M1100A	
KV-M1100B	

[KV-M1100D]

B/G/H/I/L

Television system PAL, SECAM, NTSC3.58, NTSC4.43 Color system

Channel coverage

ITALIA VHF: A-H2 (C) UHF: 21-69

PAL B/G VHF: E2-E12

UHF: E21-E69

CABLE TV (1): S1-S41

CABLE TV (2): S01-S05, M1-M10, U1-U10

Frequency meduim

Mono-Standard

F1: Video 38.9MHz F1: Audio 33.4MHz

Picture tube

Trinitron tube

Approx. 28 cm

(Approx. 26 cm picture measured diagonally)

90 °-degree deflection

Inputs

⊕ 1 21-pin connector:

CENELEC standard including RGB input.

 $Y: 1Vp-p\pm 3dB 75ohm$

 $C: 0.3Vp-p\pm3dB 75ohm$

Outputs

21-pin connector: CENELEC standard

Earphones jack: minijack

Sound output

Power consumption 56 Wh

2.5W (Music)

SPECIFICATIONS

Dimensions

Approx. $296.2 \times 261.0 \times 328.5$ mm

(w/h/d)

Weight

Approx. 8.5 kg

Supplied accessories

RM-818 Remote Commander (1)

IEC designation R6 batteries (2)

Terescopic antenna (1)

DC cord (1) AC cord (1)

[RM-818]

Remote control system infrared control

Power requirements

3V dc

2 batteries IEC designation

R6 (size AA)

Dimentions

Approx. $44 \times 25.3 \times 108.4$ mm (w/h

Weight

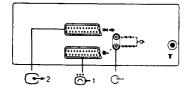
Approx. 105g (including batters)

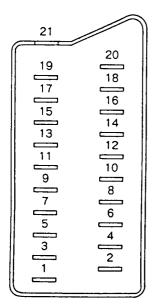
Design and specifications are subject to change without notice.

> TRINITRON®COLOR TV SONY



21 pin connector (🖰 1, 🕞 2)





Pin No.	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
2	0	0	Audio Input B (right)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
3	0	0	Audio output A (left)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio input A (left)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
7	0	•	Blue input	0.7V ± 3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5 – 12V): Part mode Low state (0 – 2V): TV mode Input Impedance: More than 10kohms Input capacitance: Less than 2 nF
9	0	0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal: 0.7V ± 3dB, 75ohms, positive
12	0	0	Open	
13	0	0	Ground (red)	
14	0	0	Ground (branking)	
15	0	-	Red input	0.7V ± 3dB, 75ohms, positive
	_	0	(S signal) croma input	0.3V ± 3dB, 75ohms, positive
16	0	•	Blanking input (Ys signal)	High state (1 – 3V) Low state (0 – 0.4V) Input impedance: 75ohms
17	0	0	Ground (video output)	
18	0	0	Ground (video input)	
19	0	0	Video output	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
20	0	-	Video input	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
	-	0	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync: 0.3V (– 3, +10dB)
21	0	0	Common ground (plug, shield)	

Connected

unconnected (open)

* at 20Hz - 20kHz

4 pin connector (🕞)

Pin No.	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB, 75ohms, positive Sync: 0.3V ∷, dB
4	C (S signal) input	0.3V ± 3dB, 75ohms, positive

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2-5. Service po	osition	17	7. ELECTRIC	AL PARTS LIST	58
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2-7. Picture tub	pe removal	19			
3. SET-UP AI	DJUSTMENTS				
3-1. Beam land	ling	20			
3-2. Converger	nce ·····	21			
3-3. Focus		23			
3-4. Screen (G	2) and white balance automatic adjustment	24			
3-5. Adjustmer	nt procedure (Reading memory contents)	24			
	nt procedure (Writing the contents of				
adjustmen	t into memory)	24			

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

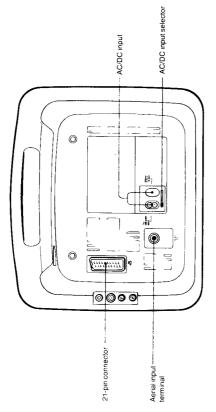
SECTION 1 GENERAL

This section is extracted from instruction manual.

Preface 35

ВB





Rear of the TV

Identifying the Parts

Front controls and screen displays

Programme position number Selected Input sources (TV, AV1, RGB, AV2, S video)

Programme position label

Channel frequency number (TV, cable TV)

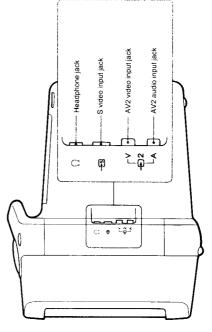
Broadcasting system

Picture/volume adjustment display

Remote control detector/ Standby indicator lamp

Side view

The symbol marks that appear at the side of the TV correspond to the jacks located on the recessed rear of the TV.



 Telescopic aerial receptacle - Z (volume) +/- button* PROGR +/- button* -O/€ (TV/video) button* ⊕ (standby) button* Carrying handle (1)

The same function buttons are also located on the Remote Commander.

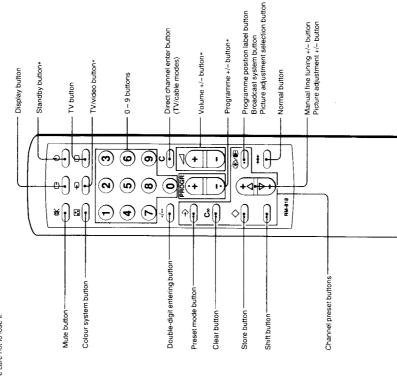
34 Preface

Top of the TV

Note the house the TV to a power outlet the TV will automatically go to standby mode, and the standby indicator lamp will light.

Remote Commander RM-818

Most of the functions of the TV require the Remote Commander. Take care not to lose it.

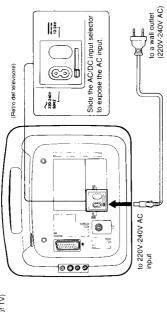


The same function buttons are also located on the TV.

Chapter 1: Preparing for Use Setting Up Your TV

Using household (AC) current

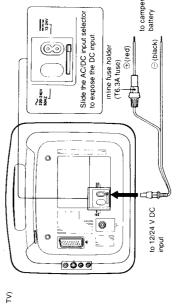
To watch your TV using household current, attach the supplied AC power cord as shown below. (Rear of TV)



Using a car battery

You can use the power from your camper van's battery by attaching the supplied DC power cord to the battery. (Attach the cord using clips designed for this purpose — not supplied).

(Rear of TV)



For car use, the TV is designed to be operated on negative ground 12V-24V DC only.

- When you are not using the TV, disconnect the DC power cord. If you don't, battery power will be lost, even in standby mode. Use the supplied DC power cord manufactured by Sony.
 The polarity of other manufacturers' cord plugs may be different.

 - In hot temperatures, do not leave the TV in the car for a long time.
 - If colour separation occurs when the TV is connected to a DC power source, switch to household (AC) current.

When battery power falls below 12V, the TV automatically switches off and goes to standby mode (The standby lamp binks to several seconds, then remains It). First hearbage the battery, then press the PROGR +- button on the TV on press \square on the Remote Commander to turn the TV on

- Caution

 Do not connect the DC power cord to the AC power input, or the AC power cord to the DC power input.
- If you connect the DC power cord to the AC power oulet, or to the incorrect pole of the camper van's battery, the inline (TG.AA) tuse will burn out. Replace a burned-out fuse only with the same type fuse.

38 Chapter 1: Preparing for Use

40 Chapter 1: Preparing for Use





If you do not know the channel numbers of the stations you want to preset, follow the steps below ("Presetting channels automatically"). If you know the channel numbers, follow the steps on pp. 42, 43 ("Presetting channels directly").

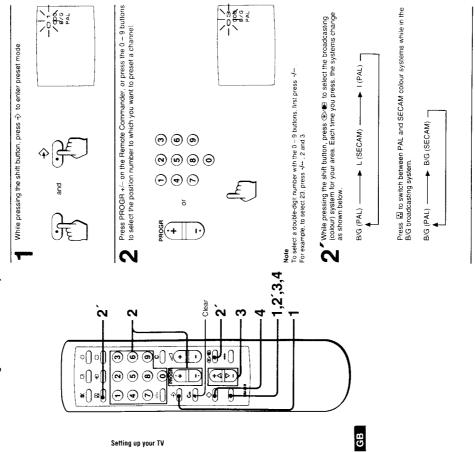
Presetting channels automatically

Insert the base of the aerial into the receptacle at the top of the TV. making sure it is inserted completely.

(Side of TV)

Attaching the telescopic aerial (supplied)

to aerial receptacle



33 Chapter 1: Preparing for Use

Note

To receive cable TV, contact your local cable company for cable connection.

to aerial input terminal

0000

- 6 -

 ${f 2}$ Attach the aerial connector plug to the aerial input terminal (rear of TV).

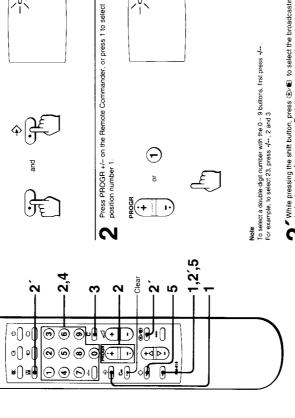
(Rear of TV)

To continue searching without presetting a tuned-in channel Press manual fine tuning +/~ again. While pressing the shift button, press manual fine funing +/- to search for channels forward or backward automatically. The TV will search for available channels, beginning with the lowest available frequency number (VHF/UHF/UHF/UHF) and stop when a channel is tuned in.

3

0 0 N A

Presetting channels directly ال الله الله الله الله o() • () *() =: ⊙ ⊕ ⊙ ‡ () Presetting channels To clear a programme position
While pressing the shift button,
press Car. The programme position will be
cleared, and the channel frequency number
To Will be selected.
To axit preset mode
While pressing the shift button,
press 3.



80

While pressing the shift button, press \diamondsuit to preset the channel which is tuned in.

Z S S A

When you know the number of the channel you want to preset, follow the steps below to preset channels directly. For example, preset channel 3 onto position number 1.

While pressing the shift button, press 💠 to enter preset mode

Press \blacksquare to switch between PAL and SECAM colour systems while in the B/G broadcasting system. While pressing the shift button, press ⊛ © to select the broadcasting (colour) system for your area. Each time you press, the systems change as shown below. → I (PAL) → B/G (SECAM) ¬ → L (SECAM) — B/G (PAL) B/G (PAL) ВB

Chapter 1: Preparing for Use | 41

The channel is now preset and you will return to TV mode automatically.

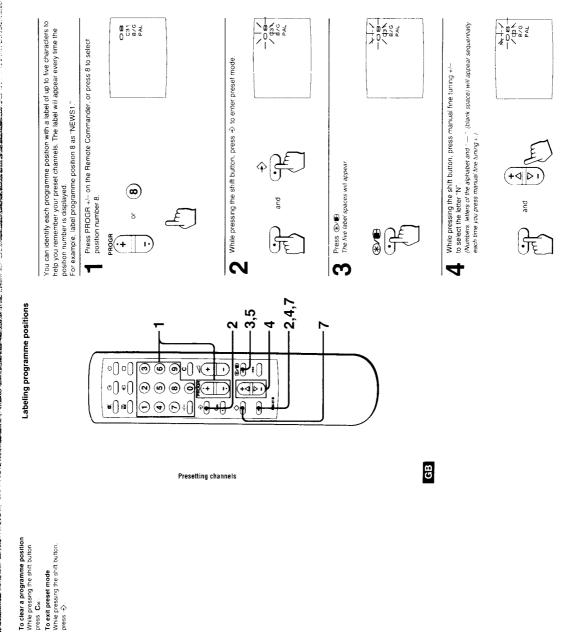
To preset other channels Repeat steps 1 ~ 4.

700 A

Press C to select the mode you want to preset. Press once to select regular TV mode; press twice to select cable TV mode.

THE RESERVE AND THE

TV mode



Chapter 1: Preparing for Use | 43

44 Chapter 1: Preparing for Use

-8-

-0-888 A

0

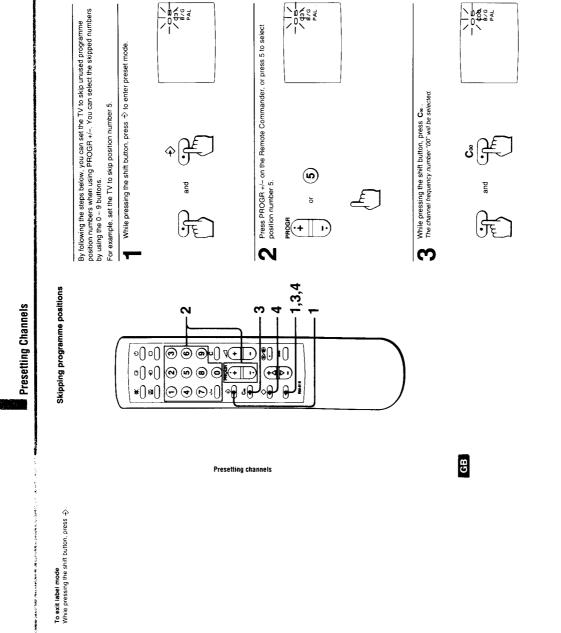
The channel is now preset and you have returned to TV mode. To preset other channels Repeat steps 1 – 5.

While pressing the shift button, press \Diamond to preset the channel.

S

Cable TV mode

Press 0 and 3 to tune in channel 3 (you must press 0).



Repeat steps 4 and 5 to set the E, W, S and 1.

9

Press ⊛ to set the first character "N."

S

While pressing the shift button, press \diamondsuit to store the label. You will return to TV mode automatically.

NEWS 1

F.

To set other labels Repeat steps 1 – 7.

NEWS3

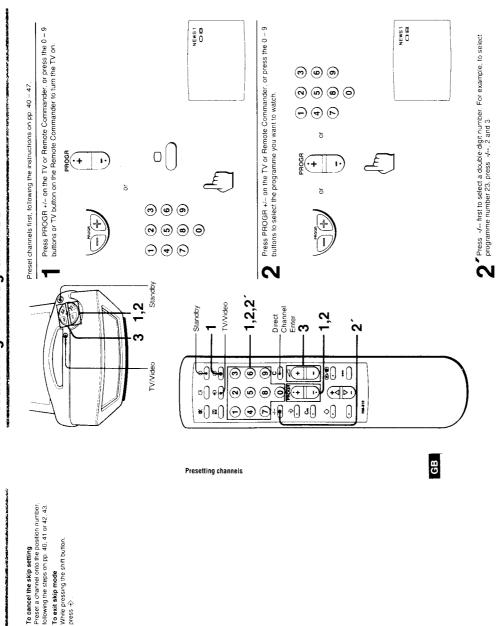
Watching TV Programmes Chapter 2: Operating Your TV

To exit skip mode
While pressing the shift button, press ⊕

0.5

To skip other channels Repeat steps 1 ~ 4.

While pressing the shift button, press \diamondsuit to set the position to be skipped. You will return to TV mode automatically. The next time you press PROGR +--, position 5 will be skipped



Chapter 1: Preparing for Use | 47

-10-

Adjusting the Picture

Use the picture adjustment feature to adjust the TV or video input picture to your laste.

video equipment

Ness (J-Q-O) to Select the video input
mode. E1 (AV 1). — (FIGB). — 22
(AV 2). — (B. (5 input) and TV modes will be
selected in sequence. For further details, see
pages 52 — 55.

To view the input from connected

Press Z +/- on the TV or Remote Commander to adjust the volume.

3

Press ② E to enter picture adjustment mode. Press repeatedly to select the quality you want to adjust. (Picture, colour, bright, hue [NTSC colour system only] and sharpness are selected in sequence.)



*() @() (-) (-) (-) (-) (-) (-) (-)

To turn off the TV
Press (*) on the TV or Remote Commander to
time TV to standby mode.
To turn the power off completely, disconnect the
power cord.

increase

7 decrease

To listen through a headphone Connect a headphone (not supplied) to Ω (the headphone jack) at the side of the TV (page 35).



Press picture adjustment +/- to make the adjustment.

2

- Normal

8 1 1



Watching TV programmes

TV mode

600

 \odot

 \bigcirc \bigcirc \bigcirc

⊗ ⊚ ⊚

Press **C** to select the mode you want to watch. (Press once to select regular TV mode, press twee to select cable TV mode.) Then press the 0 – 9 buttons to Select the channel.

The channel will be received, but it is not preset to any position number.

If you know the channel frequency number, you can tune in a channel temporarily, without presetting.

To tune in a channel temporarily

Press + to increase the volume. Press - to decrease the volume.





Æ	7	

decrease increase	Press + button	To increase picture contrast with vivid colour	To increase colour intensity	To increase brightness	Skin tones become greenish	To increase sharpness
	Press – button	To decrease picture contrast with soft colour	To decrease colour intensity	To decrease brightness	Skin tones become purplish	To decrease sharpness
(+d D1)	Picture quality	(picture)	(colour)	⇔ (bright)	(NTSC only)	(sharpness)

GB

The display will disappear automatically after a few seconds. If you do not press any

(sharpn

To restore the original settings

Press ***.
All the qualities will be restored to their original factory-set levels.

Chapter 2: Operating Your TV | 49

Nate To select a double-digit number, press -/-- before pressing the 0 $^{-}$ 9 buttons.

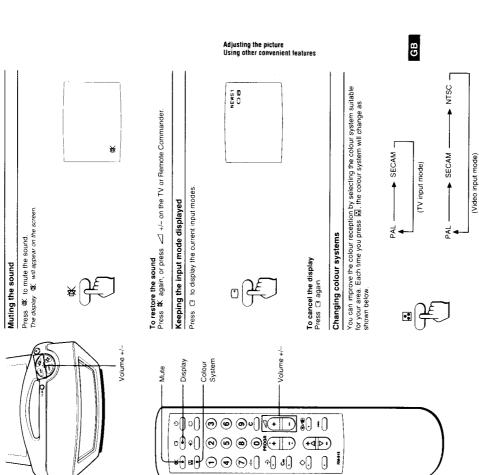
Cable TV mode

S04

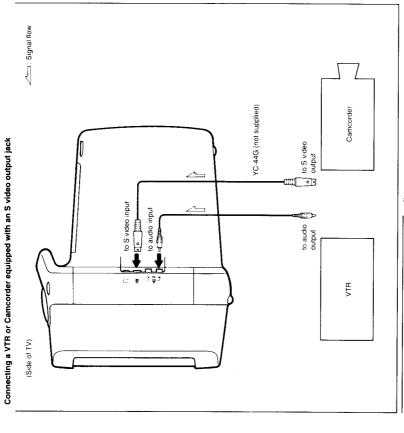
(-) (-) (-)

-11-





Chapter 3: Making Other Connections
Connecting Optional Equipment



Select S video input mode by pressing CI/E) on the TV or ±0 or the Remale Commander until +8 appears on the screen. Each time you press, the screen display will change as follows: Operating your equipment

 Be sure to fully insert the plugs into the jacks. A loose connection may cause hum and noise. You can watch the image from a VTR by connecting through the Tf terminal at the rear of the TV. In this case, press to select TV mode, and then select Channel 0.

Before connecting, be sure to turn off all equipment.

(S video) (AV2) (AV1) (RGB)

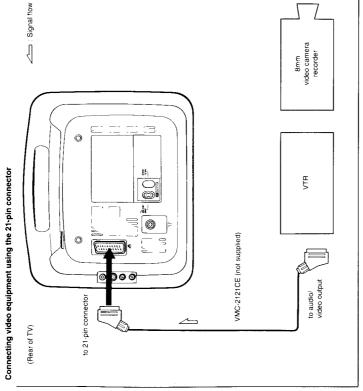
2 Set the equipment to playback mode.

To return to TV mode
Press □ on the Remote Commander to return directly to TV mode.

52 Chapter 3: Making Other Connections

Chapter 2: Operating Your TV | 51





Connecting Optional Equipment

(Side of TV)

Select AV 1 mode by turning on the equipment. Operating your equipment

To return to TV mode
Press C on the Remote Commander to return directly to TV mode, or turn the video equipment off.

2 Set the equipment to playback mode.

g B

Connecting optional equipment

Camcorder

Signai flow VMC-715KM (not supplied) Connecting a VTR or Camcorder not equipped with an S video output jack to video output

to audio input to video input to audio output ΛTR

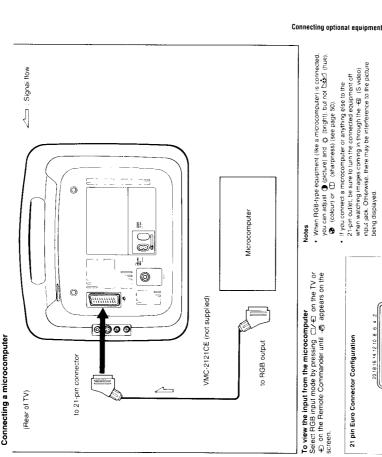
1 Select AV 2 mode by pressing CJ∕€ on the TV or ∙€ on the Remote Commander until ∙€ 2 appears on the screen. Operating your equipment

To return to TV mode Press ○ on the Remote Commander to return directly to TV mode.

2 Set the equipment to playback mode.

Specifications & Receivable channels Troubleshooting

ЗВ



To view the input from the microcomputer Select RGB input mode by pressing □/€) on the TV or ⊕ on the Remole Commander until ♣ appears on the screen.

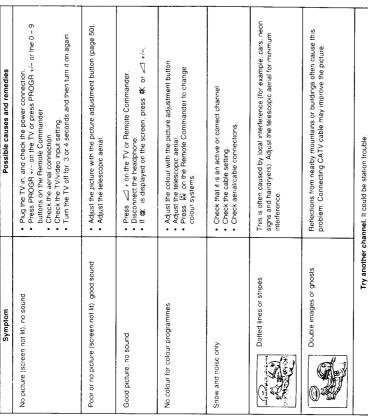
000000000000 21 pin Euro Connector Configuration

When RGB-type equipment (like a microcomputer) is connected, you can adjust ⊕ (picture) and ⇔ (trught), but not ဩ (flue).

 (colour) or □ (sharpness) (see page 50).

If you connect a microcomputer or anything else to the 21-pin outlet, be sure to turn the connected equipment off when watering magas coming in through the +B_(S video) mpul gack. Otherwise, there may be interference to the picture being displayed.

89

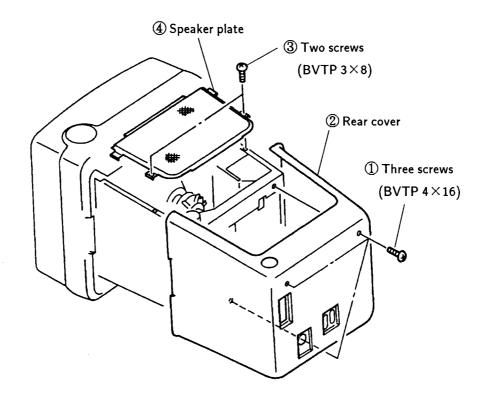


Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

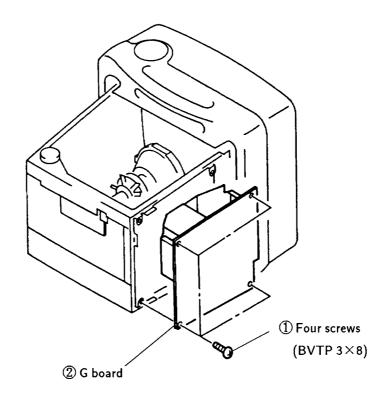
Troubleshooting

SECTION 2 DISASSEMBLY

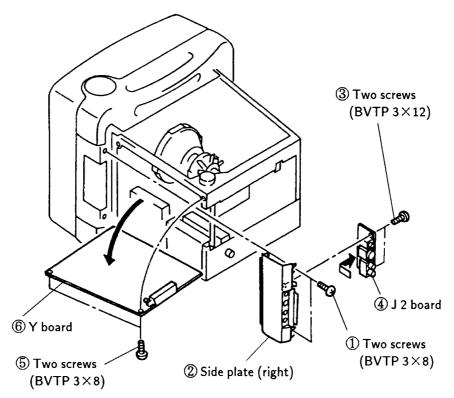
2-1. REAR COVER REMOVAL



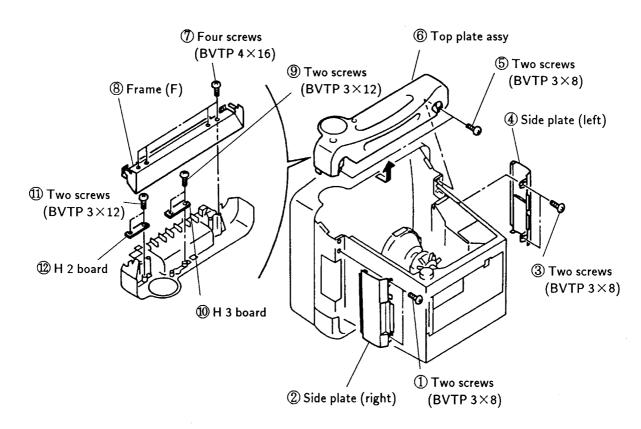
2-2. G BOARD REMOVAL



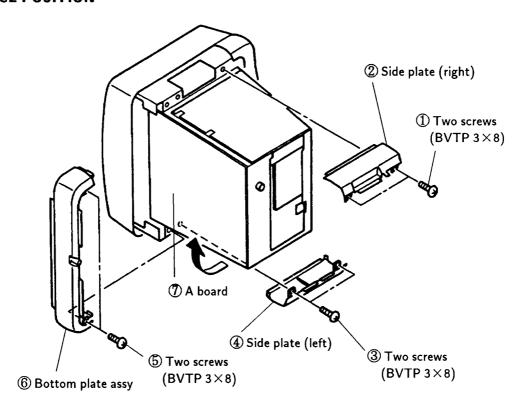
2-3. J 2 AND Y BOARD REMOVAL



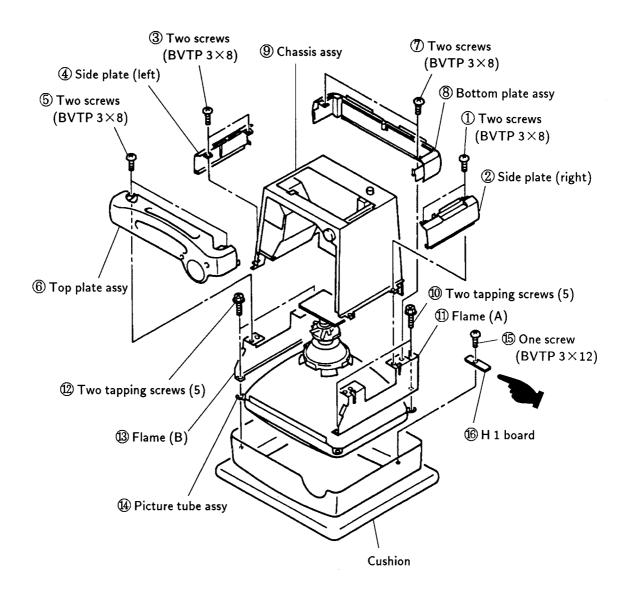
2-4. H 2 AND H 3 BOARD REMOVAL



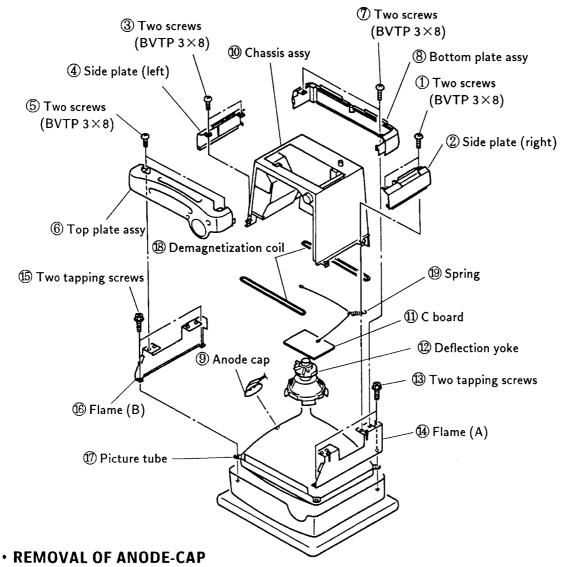
2-5. SERVICE POSITION



2-6. H 1 BOARD REMOVAL

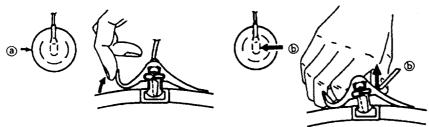


2-7. PICTURE TUBE REMOVAL

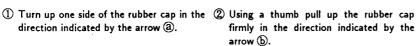


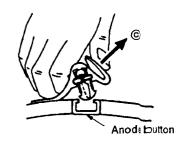
NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

REMOVING PROCEDURES



direction indicated by the arrow @.

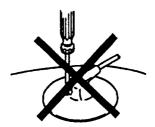


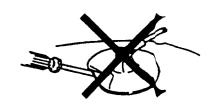


3 When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.
 The controls and switch below should be set as follows unless otherwise noted:

● CONTRASTcontrol...... 80%(or Normal by commander)

□ BRIGHTNESS control 50%

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. Screen (G 2) and White Balance

Note: Test Equipment Required.

- 1. Color bar/Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter
- 5. Oscilloscope

Preparation:

- Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser..

3-1. BEAM LANDING

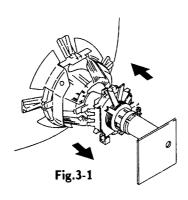
Demagnetize with a degausser

1. Input a raster signal with the pattern generator.

 $\begin{array}{c} \text{CONTRAST} \\ \text{BRIGHTNESS} \end{array} \bigg\} \text{normal}$

- 2. Turn the raster signal of the pattern generator to red.
- 3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly.

 (Fig.3-1 to 3-3)
- 4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
- 5. Switch over the raster signal to blue and green confirm the condition.
- 6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
- 7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)



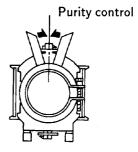


Fig.3-2

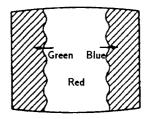
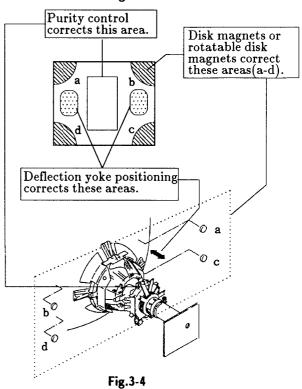


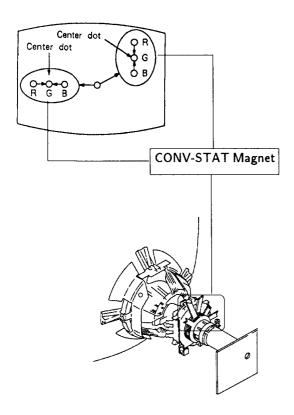
Fig.3-3



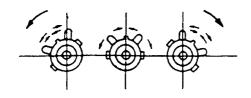
3-2. CONVERGENCE

Preparation:

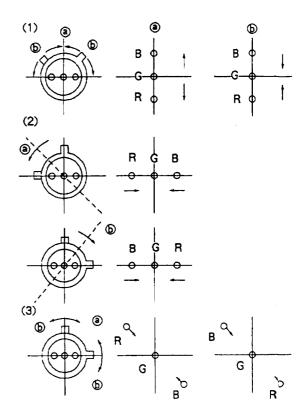
- Before starting, perform FOCUS, H.SIZE, and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



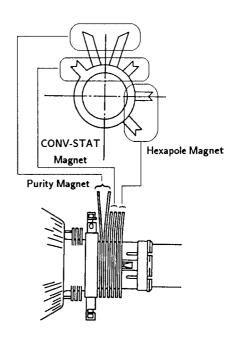
- 1. Adjust CONV-STAT Magnet to coincide red, green blue dots on the center of screen.
- Tilt the CONV-STAT magnet and adjust static convergence to open or close the CONV-STAT magnet.



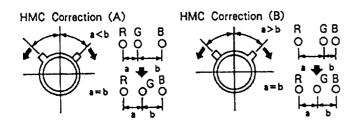
2. When the CONV-STAT magnet is moved in the direction of arrow (a) and (b), Red, Green and Blue dots move as shown below.



* IF the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.



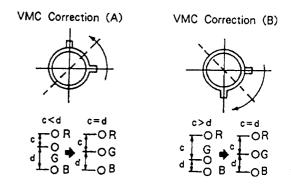
- HMC and VMC correction for BMC (6-polse) magnet.
- 1. HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.



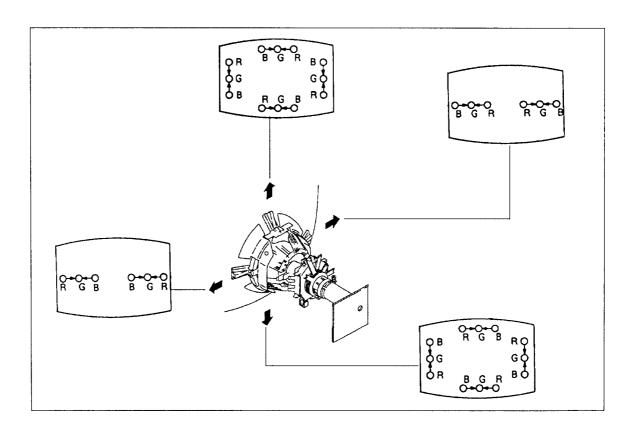
(2) Dynamic Convergence Adjustment Preparation:

- Before starting perform Horizontal and Vertical static convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

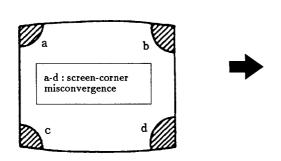
 VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6poles) magnet.

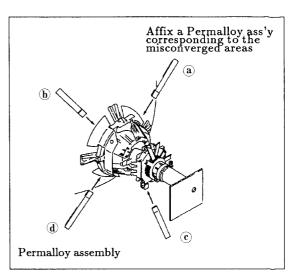


- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



(3) Screen-corner Convergence



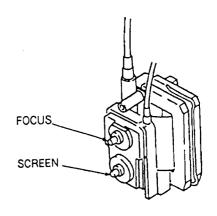


3-3. FOCUS

1. Input a monoscope signal.

 $\begin{array}{c} \text{CONTRAST} \\ \text{BRIGHTNESS} \end{array} \right\} \text{normal}$

2. Adjust FOCUS control for a best picture at the center and both sides of the screen.



3-4. SCREEN (G 2) and WHITE BALANCE AUTOMATIC ADJUSTMENT

(Adjustment with remote commander in service mode)

- (1) G 2 adjustment screen
- 1. Set picture and brightness to STANDARD.
- 2. Apply external voltage 150 VDC to each of the red, green, and blue cathodes.
- 3. Adjust the G2 control knob to a position immediately before the retrace line on the screen disappears.
- (2) White balance adjustment (See the table of service items)

Call item NOs. 13-18 in service mode and adjust each.

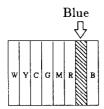
- 1. Receive the color bar place the set into service mode.
- 2. Set picture to MINIMUM and brightness to STANDARD.
- 3. Set cut-off (red, green and blue) to MINIMUM and drive (green and blue) to CENTER.

Cut-off

DRIVE

No	Item name	Data	No	Item name	Data
16	G BKG		13	R BKG	
17	B BKG	64	14	G BKG	100
18	R BKG		15	B BKG	

4. Adjust brightness compensation so that the blue stripe section of the color pattern shines dimly.



- 5. Switch the pattern generator signal to ALL WHITE.
- 6. Adjust white balance with each cut-off.
- 7. Set picture to MAXIMUM and adjust white balance with the green and blue drive.
- 8. Repeat the above until white balance between MINIMUM and MAXIMUM of picture is obtained.
- 9. Switch the pattern generator signal to the color pattern signal.
- 10. Adjust brightness compensation so that the blue stripe section on the screen shines dimly when picture is set to MINIMUM.

3-5. ADJUSTMENT PROCEDURE

(Reading memory contents)

- (1) Confirm that the set has started up in the user mode. (CB). Press the picture quality adjustment key *** to leave the set in normal state. Turn off the power the set.
- (2) Turn on the power to the set white holing down the service switch located on the rear panel of set. Confirm that SERVICE is indicated on the screen.
- (3) press the

 key. Confirm that indication R on the upper right corner of the screen blinks.
- (4) Press the C key while indication R is blinking. Thus, the contents of NVM are read in.

Note: If IC 306 is a new one (e.g., entirely new one immediately after replacement), do not execute steps (3) and (4) above.

3-6. ADJUSTMENT PROCEDURE

(Writing the contents of adjustment into memory) When adjustments are completed.

- (1) Press the of key Confirm that indication W on the upper right corner of the screen blinks.
- (2) Press the C key while indication W is blinking. W stops blinking and the STBY LED lights. Writing to memory is completed when W and LED go out.

NO	Item name	Data
13	R DRIVE	0~127
14	G DRIVE	0~127
15	B DRIVE	0~127
16	G BKG	0~255
17	B BKG	0~255
18	R BKS	0~255

SECTION 4 CIRCUIT ADJUSTMENTS

Terminate service mode

Execute read or write

Data up

Data down

4-1. COMMANDER OPERATION IN SERVICE MODE

[Electrical adjustment in service mode]

Electrical adjustments for service with this type of model can be accomplished by using the remote commander RM-818 included with the set.

7

(8)

0

0

3

(6)

(9)

TRINITRON

SONY

Figure: Key assignments in service mode

Write to memory

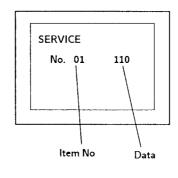
Increment item NO.

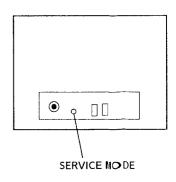
Decrement item NO.

Read from memory

- (1) Unusable keys
- ① 2, 5, 7, 8, 9, 0 among numeric keys
- ② \Rightarrow C₀₀ \diamondsuit , ③, \implies (+/-) These keys are asserted when the key is pressed while holding down the \bigcirc key.
- (2) Usable keys (incl. those which do not change the meaning)
- ① 🖸
- 2 +D, O
- 30
- 4 PROGR (+/-)
- ⑤ ⊕, ⊕ (+/-)
- **6** +--
- (7) \triangle (+/-)

Screen in service mode





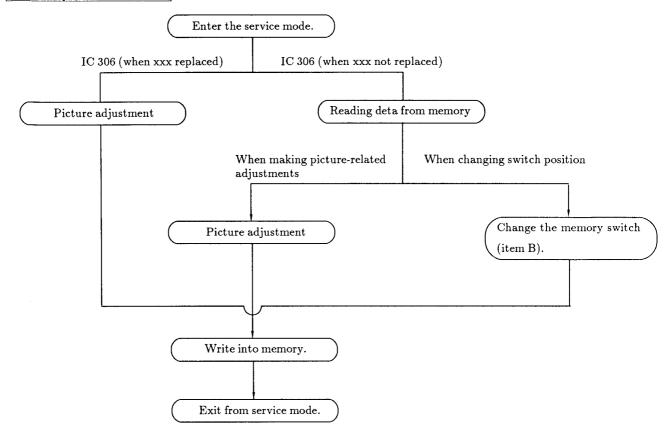
<CAUTION>

before releasing.)

The service mode is used to prohibit the following.

- (1) Data writing in the non-signal condition.
- (2) Releasing the service mode when the power supply h_{ls} been turned off with the commander. (Be sure to turn off the main power supply of the unit
- (3) Power off during writing (while the LED is lit)
- (4) Switching of the color system during service item $N \cdot 1$ (VC O)
- (5) Data writing during the NTSC 443 mode.

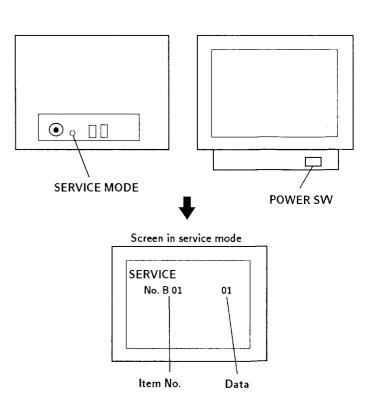
How to adjust in service mode



Note: Do not turn off the power before writing adjustment data into memory. If the power is off, your adjustment data cannot be stored in memory. Always be sure to write data into memory after making adjustments.

[Basic adjustment in service mode]

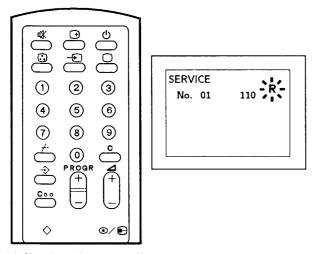
- 1. Entering the service mode
- ① Insert a narrow screw-driver into the hole located on the rear cover of the TV set. When this is done, the switch located at the back of the hole is pressed.
- ② While pressing the switch, plug the power cord of the TV into the AC outlet. (Or you may turn on the power of the TV from standby state by using the remote commander.) A message "SERVICE NO. 01 00" will be displayed in green on the screen as the unit enters the service mode.



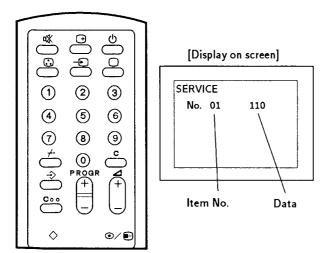
- 2. Reading data from memory
- ① Read the adjustment values of all items and switch-setting values from memory.

To do this, press the $[\not\leftarrow]$ button, then the [C] button on the remote commander. When $[\not\leftarrow]$ is pressed, the letter R blinks on the upper right corner of the screen. When [C] is pressed during this time, the letter R stops blinking and data read is terminated.

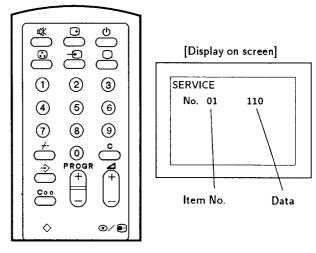
Note: When you replaced IC 306, do not read data from memory before writing new data.



- 3. Adjusting picture quality
- ① Select one of item Nos. 01-29 that you want to be adjusted by using the remote commander buttons [1] and [4].
- ② Adjust picture quality using buttons [3] and [6] until the appropriate picture quality is obtained and the set values are satisfied.

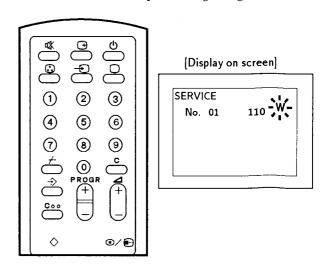


- 4. Changing switch positions
- ① Select one of item Nos. B 01-B 02 that you want to be changed by using the remote commander buttons [1] and [4].
- ② The internal switches can be changed over using buttons [3] and [6]. Normally, you specify standard values. (See the table of service items.)

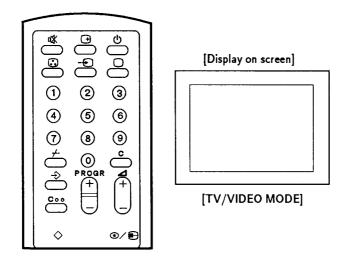


- 5. Writing to memory
- ① After adjustment, adjust the switch-setting values, then write the adjustment data to memory using the [%] button. (Data cannot be written by only using the [%] button.)

Press the [C] button while the character ":" is blinking on the screen (within 3 seconds). It takes approximately 3 seconds from when the [C] button is pressed to when writing to memory is completed. Writing to memory is completed when the character ":" stops blinking and goes out.



- 6. Terminating service mode
- ① Unplug the power cord of the TV and plug it in again. When this is done, the indication of SERVICE MODE goes out and the unit enters normal TV mode.



4-2. A BORAD ADJUSTMENTS

RF AGC Adjustment

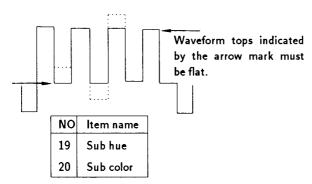
- 1. Receive the color bar signal. (RF signal)
- 2. Picture: 80%
- 3. Brightness: standard
- 4. Adjust the IF pack AGC knob until snow noise and cross modulation are eliminated.
- 5. Confirm the above in each channel.

VCO Adjustment

- 1. Receive the color bar signal and place the set into service mode.
- 2. Set a value with item 1 so that the screen beats.

SUB COLOR and SUB HUE Adjustments

- 1. Receive the color bar signal and place the set into service mode.
- 2. Connect an oscilloscope to the TP (blue output) of the circuit board C, then press the STANDARD button using the remote commander.
- 3. Next, adjust the oscilloscope waveform with item 19 and 20 until the waveform shown below is obtained. Then, set sub-color to a value three steps up.



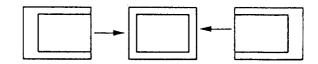
Note:

When sub-contrast, sub-hue or sub-color is adjusted, picture qualities in video 1 and video 2 are no longer STANDARD (independently stored in memory). Select video 1 and video 2 using the remote commander (TV/VIDEO) button, then press the (STANDARD) button for each.

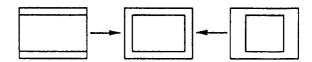
Picture qualities in video 1 and video 2 can be made to STANDARD even when you set "channel selection", standad" with buttons (8) and (12) after writing data to memory.

ADJUSTING DEFLECTION

Horizontal position (item NO. 9) 0~31 H. CENT

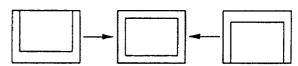


Horizontal amplitude (item NO. 10) 0∼63 H. SIZE

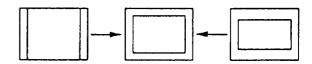


Vertical position (item NO. 2) 0~63

V. CENT



Vertical amplitube (item NOs. 3, 4) 0~255 V. SIZE



Vertical linearity (item NOs. 5, 6) L : $0\sim63$, H : $0\sim63$ V. ANGLE



Vertical character-S correction (item NOs. 7, 8)

L:0~31, H:0~255



· ITEM LIST

<u>_</u>		ă	Register name			Adju	Adjustment data			
¥9.	o. Item name	2	LABEL	Bit length	Data rangh	PAL	SECAM	NTSC	Remarks	Signal
٦	VCO	PVPU	VCOA	œ	$(-128)0 \sim (+127)255$	ADJ		ADJ	Adjusted with VCO free-run	CB
2	V center	Microprocessor	PWM output	œ	6~63	ADJ	ı	ADJ	Dummy-IM bus adjustment	SPCB
3,4	4 Note 1) V size H&L	DPU	НОГ, НОН	8+8	$L(0\sim15), H(0\sim255)$	ADJ	ţ	ADJ	V amplitude	"
5,6	6 Note 1) V linearity H&L	DPU	S1L,S1H	9+8	$L(0 \sim 63), H(0 \sim 63)$	ADJ	1	ADJ	V symmetry	"
7,	7,8 Note 1) V character-S correction H&L	u DPU	S O L, S O H	8+8	$L(0 \sim 31), H(0 \sim 255)$	ADJ	ı	ADJ	S correction	"
6	H center	DPU	SP	2	$0 \sim 31$	ADJ	1	ADJ		"
10	-	Microprocessor PWM output	PWM output	æ	$0\sim 63$	ADJ	1	ADJ	Dummy-IM bus adjustment	"
11	1 H blanking	DPU	BP	9	0~63	×	1	×		"
12	2 ACC level	PVPU	BA	9	0~63	×	1	×		CB
13	3 R drive	PVPU	WR	7	$0 \sim 127$	ADJ	1	ı	AMB to be turned off.	W/CB
14	4 G drive	PVPU	WG	7	0~127	ADJ	ţ	ţ	"	"
15	5 B drive	PVPU	WB	2	$0 \sim 127$	ADJ	1	1		"
16	6 G cut-off	PVPU	SO	œ	0~255	ADJ	1	ţ		*
17	7 B cut-off	PVPU	CB	œ	$0 \sim 255$	ADJ	ı	1		"
18	8 Rcut-off	PVPU	CR	œ	0~255	ADJ	1	ţ	H	"
19	9 Sub-hue 1	DTI	FSR 1, 2	8,8		×		ADJ	Shared with hue when DTI is on.	CB
20	3 Sub-color 1	DTI	FSR 1, 2	8,8		ADJ		ADJ	Shared with color when DTI is on.	"
21	1 Sub-bright	PVPU	BR	80	0~255				Shared with bright (user controllable).	W
22	2 External RGB contrast	PVPU	RGBC	9	$0 \sim 63$	×	ţ	ţ		СВ
23	3 Y/C delay	PVPU	ΠD	4	$(-4)\ 0\sim (+4)8$	×	×	×		SP CB
24	4 External RGB delay Y	DTI	LDA	6	0~511	×	1	×		
25	5 External RGB delay C	DTI	CDA	6	0~511	×	1	×		
26	6 Sub-hue 2	SPU	SR, SB	9,9	0~63		×			CB
27	7 Sub-color 2	SPU	SR, SB	9,9	$0 \sim 63$		×			"
28	8 DC offset R	SPU	OR	9	$0 \sim 63$		×			"
29	9 DC offset B	SPU	BO	9	0~63		×			"
m	B 01 Auto White Balance					0: off(w	rithout IK	pulse)	0: off(without IK pulse) 1: off(IK pulse) 2: Auto cut-off 3: on	
Bβ	B 02 DTI					0: off	1: on			
\in	A D. I. Must be addingted for each and									

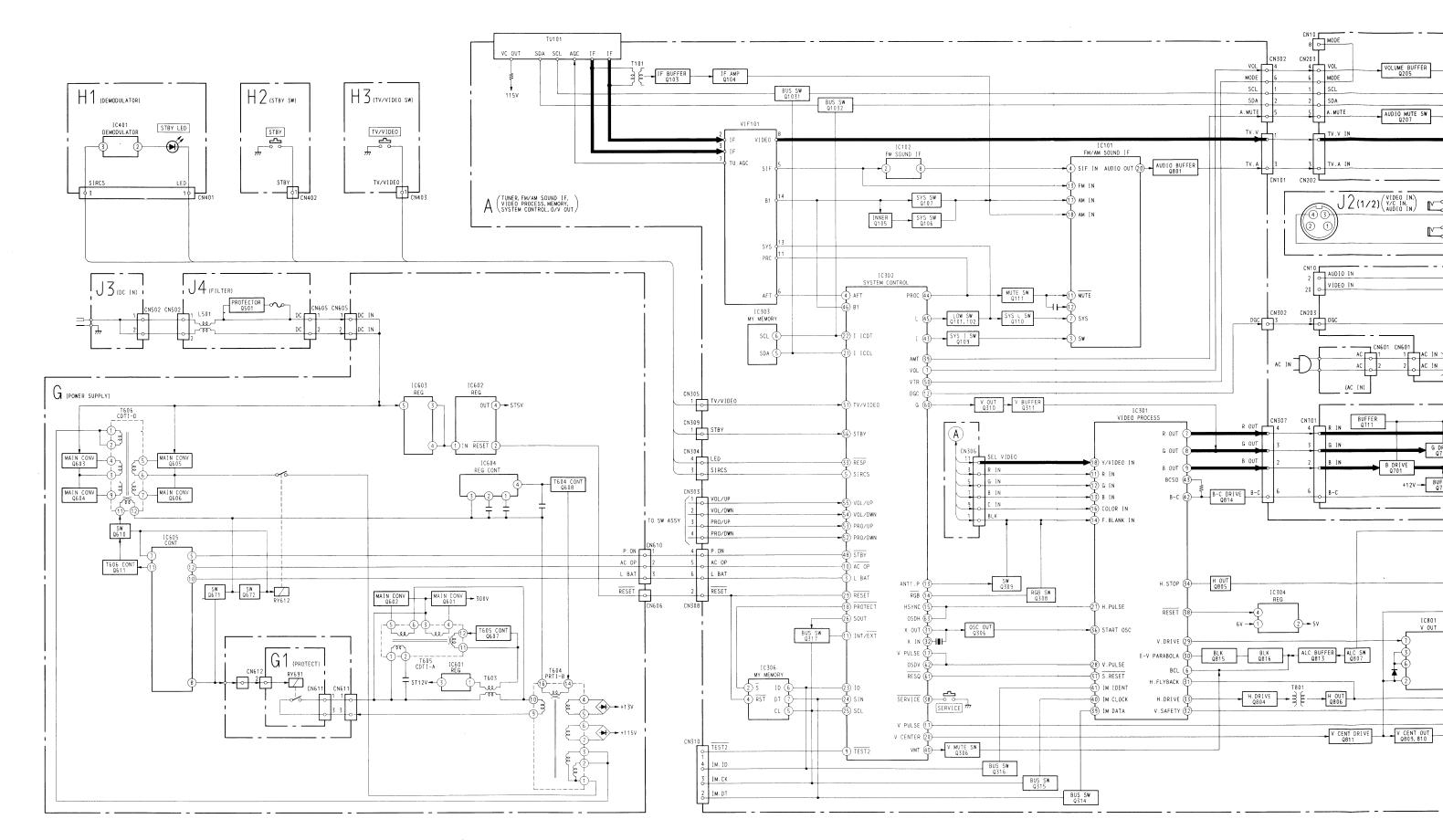
 $\overline{\mathbf{x}}:$ Must be treated as reference (fixed) value based on deviation between sets.

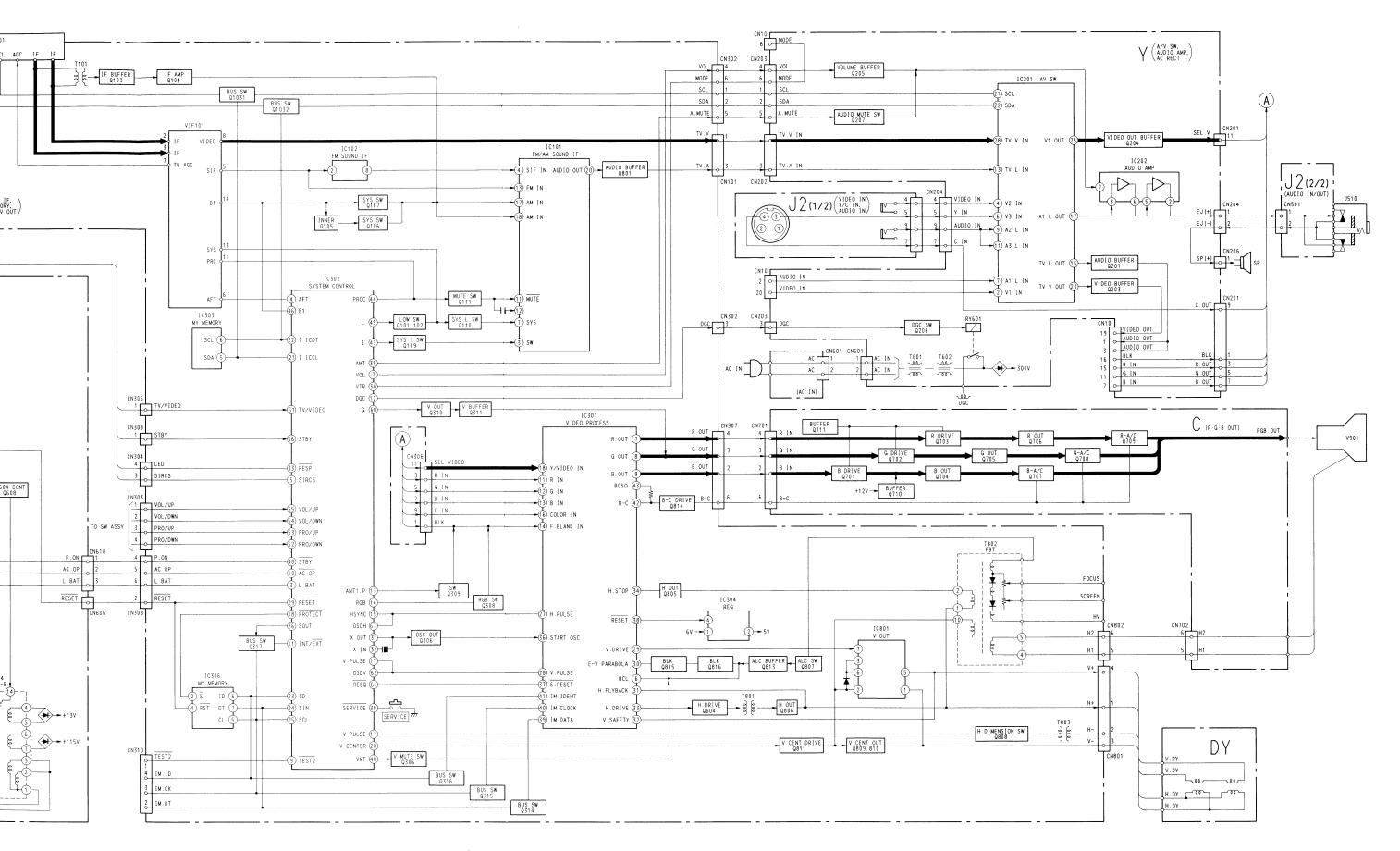
AWB: RGB cut-off and drive are automatically adjusted. [Mode 0] without IK pulse, countermeasures against claims; [Mode 1] only AWB function unavailable, adjustment mode; [Mode 2] Auto cut-off function only; [Mode 3] Auto white balance function (1) ADJ: Must be adjusted for each set.
 (2) X : Must be treated as reference (fixe.
 (3) AWB: RGB cut-off and drive are aut

Note 1: Two adjustment modes are available, L-byte(fine adjustment) and H-byte(rough adjustment).

SECTION 5 DIAGRAMS

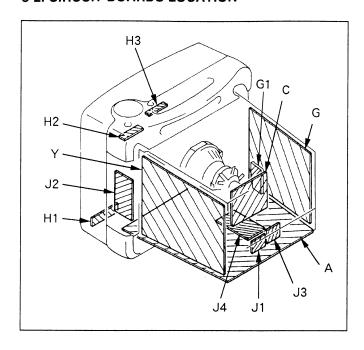
5-1. BLOCK DIAGRAM





- A board -

5-2. CIRCUIT BOARDS LOCATION



Reference information

METAL FILM RESISTOR : RN SOLID : RC : FPRD NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE : FUSE NONFLAMMABLE WIREWOUND : RW NONFLAMMABLE METAL OXIDE : RS NONFLAMMABLE CEMENT : RB MICRO INDUCTOR : LF-8L **TANTALUM** CAPACITOR : TA : PS STYROL POLYPROPYLENE : PP : PT MYLAR METALIZED POLYESTER : MPS : MPP METALIZED POLYPROPYLENE : ALB **BIPOLAR** HIGH TEMPERATURE : ALT

HIGH RIPPLE

: ALR

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS — CONDUCTOR SIDE —

Note

- All capacitors are in μF unless otherwise noted.
 pF: μμF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/10W

- All resistors are in ohms.
- : nonflammable resistor.
- fusible resistor.
- \(\triangle \) : internal component.
 \(\triangle \) : panel designation.
- All variable and adjustable resistors have characteristic curve B. unless otherwise noted.
- All voltages are in V.
- \bullet Readings are taken with a 10 MQ digital multimeter.
- Readings are taken with a PAL color-bar signal input.
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerance.
- : B+ bus.
- ===: B- bus.
- : signal path.

1 C DIODE IC101 D-7 D101 C-7 IC102 D-7 D102 C-8 IC301 B-4 D305 D-6 1C302 C-4 D306 E-6 IC303 B-1 D310 E-8 IC304 E-3 D311 E-8 IC305 E-4 D312 E-8 IC306 A-1 D313 E-7 IC801 G-3 D314 D-7 D315 D-8 TRANSISTOR D801 D-8 D802 F-1 Q101 C-7 D807 C-5 Q102 C-8 D810 F-2 Q103 D-6 D811 B-3 Q104 E-6 D812 D-3 Q105 E-8 D813 F-2 Q106 E-8 D814 B-2 Q107 E-8 Q108 E-7 TEST POINT Q109 D-7 0110 D-8 TP103 B-9 Q111 D-8 Q306 F-1 Q307 C-5 Q308 F-2 Q309 B-3 Q310 D-3 Q311 F-2 Q314 B-2 Q315 B-2 Q316 B-2 Q317 C-5 Q804 H-3 Q805 H-6 Q806 F-6 Q807 H-6 Q808 F-4 Q809 H-5 Q810 H-5 Q811 H-6 Q813 G-5 Q814 A-4 Q815 B-4 Q816 B-3 Q1031 C-7 Q1032



NOTE:

The circuit 600 Vp-p. inspection

KV-M1100D RM-818 KV-M1100D RM-818

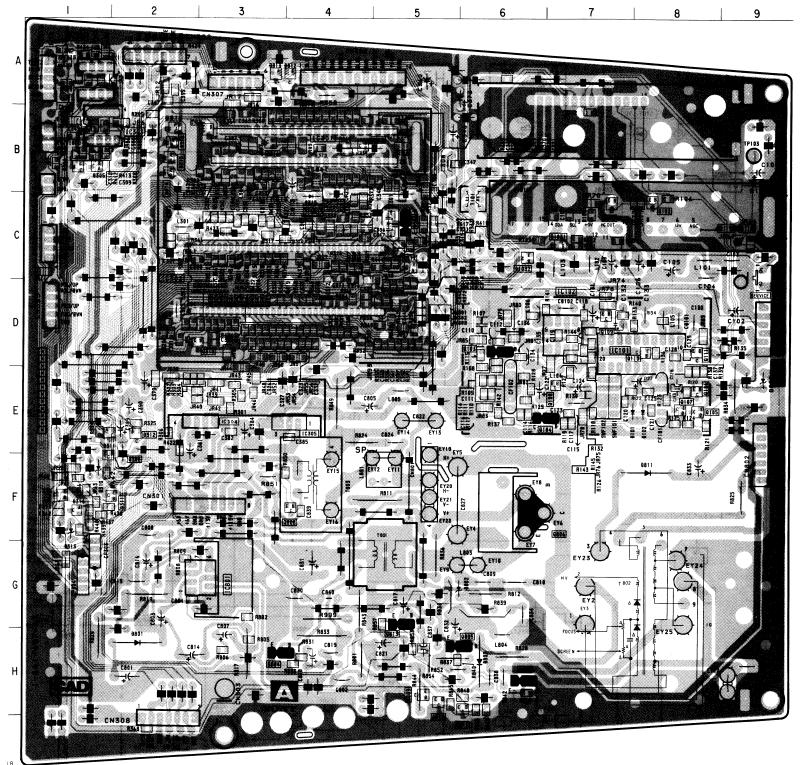
TUNER FM/AM SOUND IF VIDEO PROCESS MEMORY SYSTEM CONTROL H/V OUT

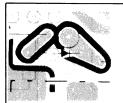
— A board —

Note:

- : Pattern from the side which enables seeing.
- Pattern of the rear side.

I C	DIODE
IC101 D-7	D101 C-7
IC102 D-7	D102 C-8
IC301 B-4	D305 D-6
1C302 C-4	D306 E-6
IC303 B-1	D310 E-8
IC304 E-3	D311 E-8
1C305 E-4	D312 E-8
IC306 A-1	D313 E-7
IC801 G-3	D314 D-7
TRANSISTOF	D315 D-8 D-8 D-8
	D802 F-1
Q101 C-7	D807 C-5
Q102 C-8	D810 F-2
Q103 D-6	D811 B-3
Q104 E-6	D812 D-3
Q105 E-8	D813 F-2
Q106 E-8	D814 B-2
Q107 E-8	
Q108 E-7	TEST POINT
Q109 D-7	TD100 D 0
Q110 D-8 Q111 D-8	TP103 B-9
Q111 D-8 Q306 F-1	
Q307 C-5	
Q308 F-2	
Q309 B-3	
Q310 D-3	
Q311 F-2	
Q314 B-2	
Q315 B-2	
Q316 B-2	
Q317 C-5	
Q804 H-3	
Q805 H-6	
Q806 F-6	
Q807 H-6	
Q808 F-4 Q809 H-5	
Q809 H-5 Q810 H-5	
Q811 H-6	
Q813 G-5	
Q814 A-4	
Q815 B-4	
Q816 B-3	
Q1031 C-7	
01000	





NOTE:

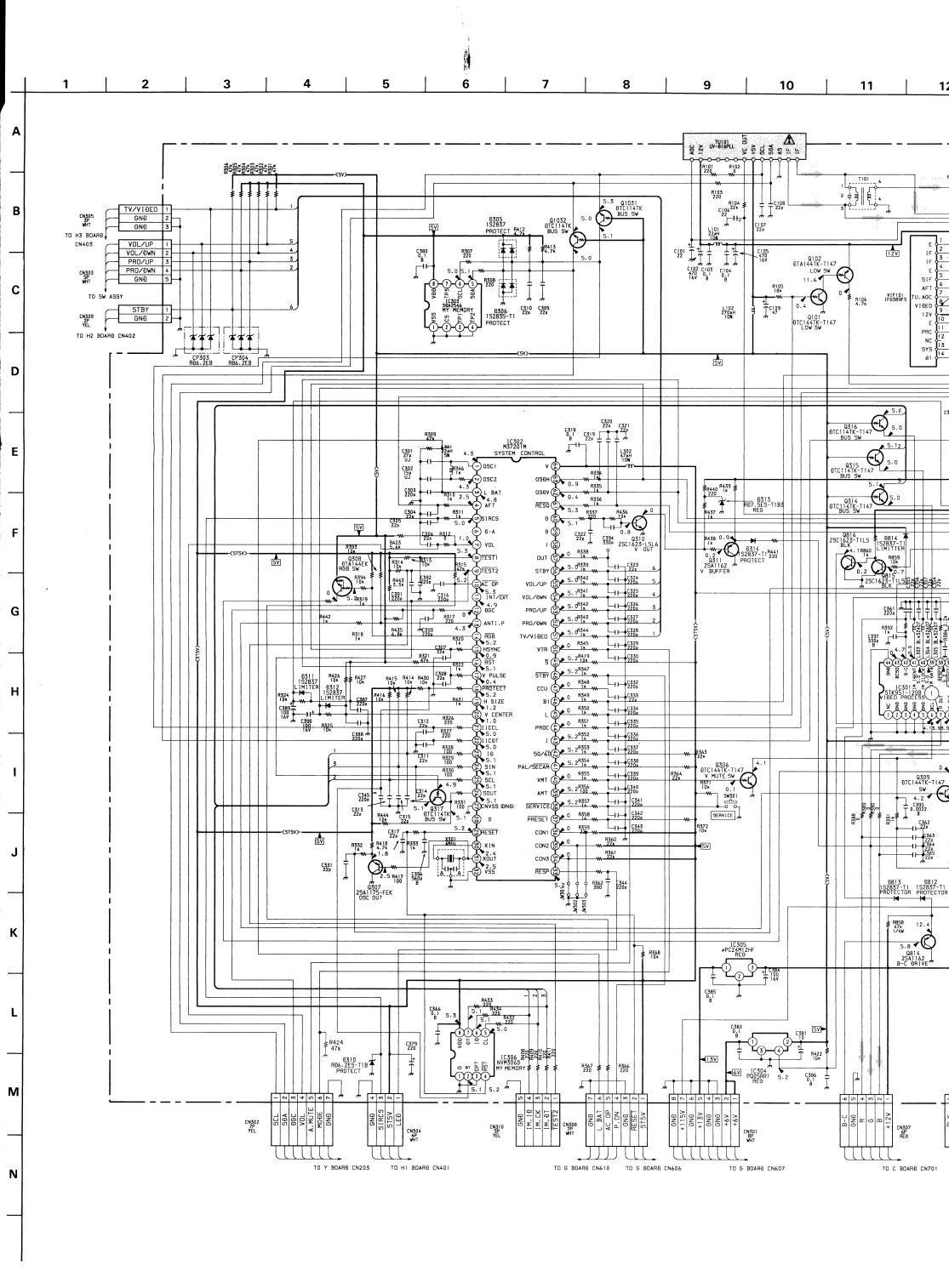
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

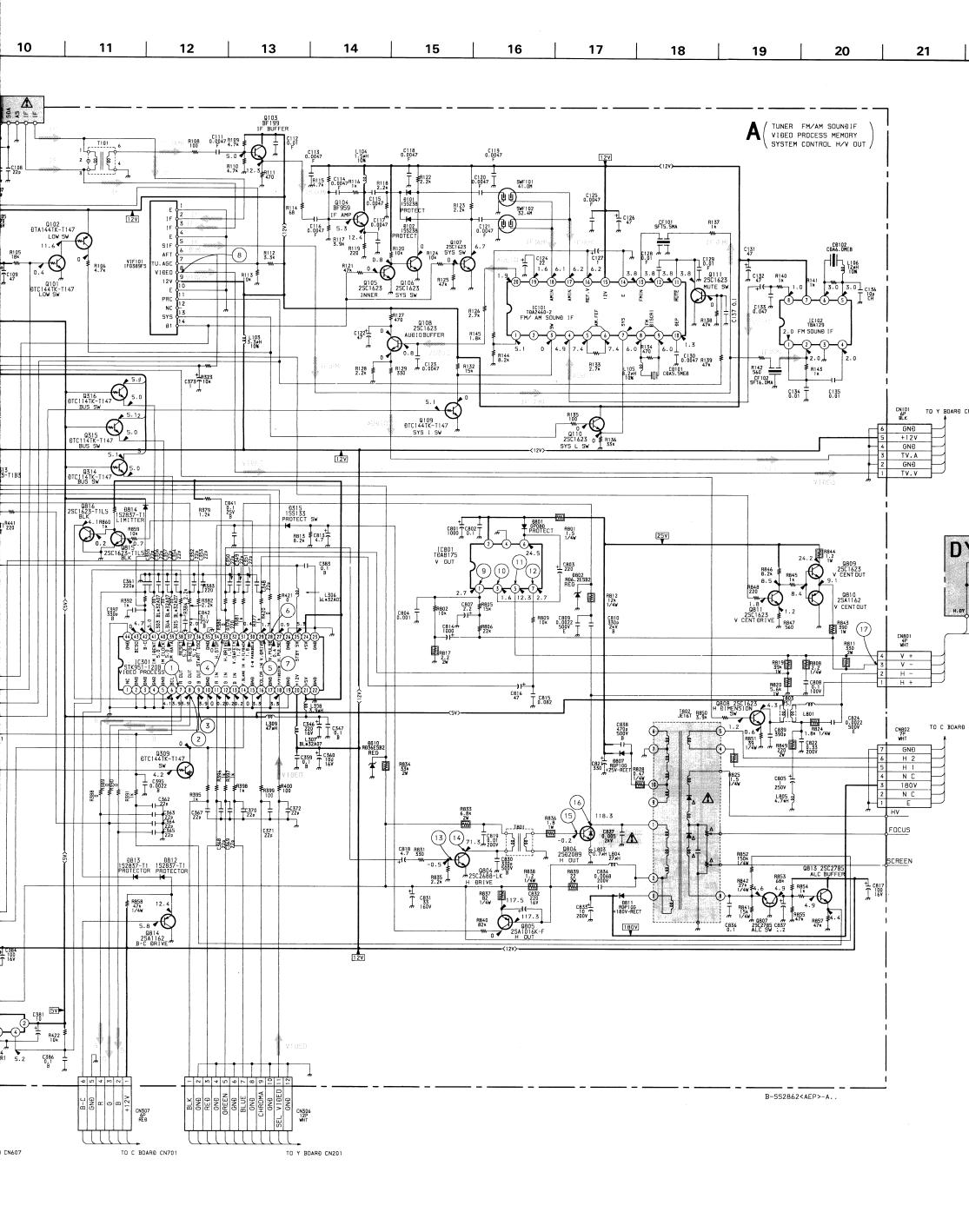
Q1032

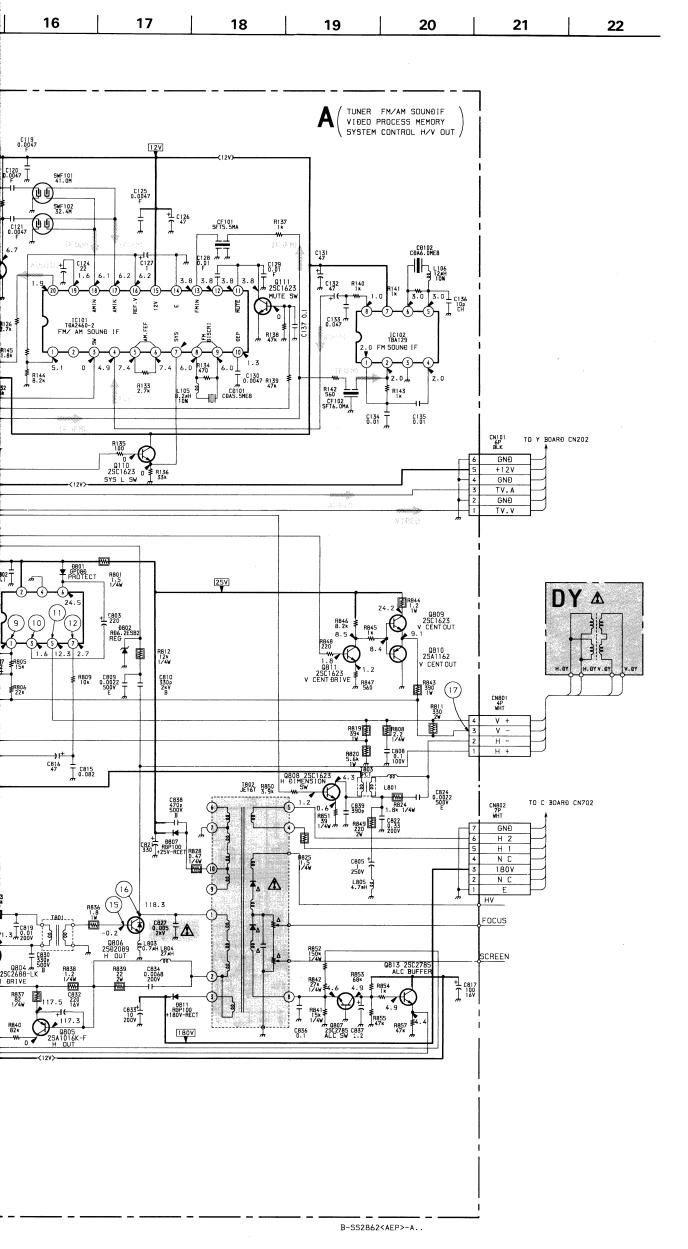
C-6

USIBLE VIREWOUND METAL OXIDE EMENT

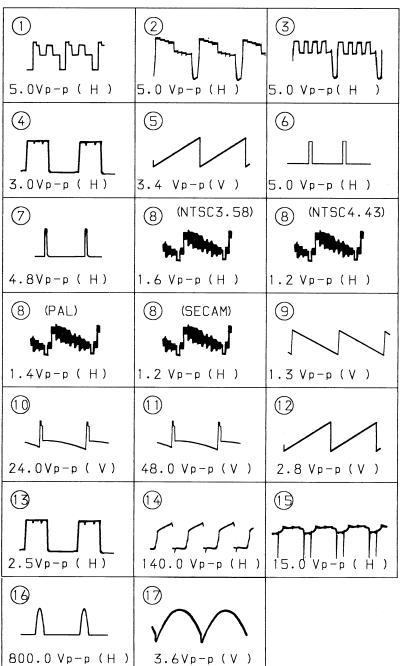
ROPYLENE



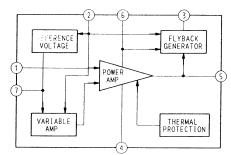




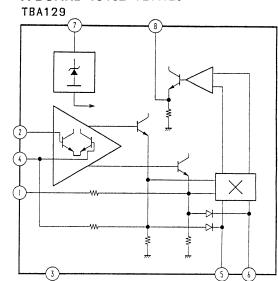
WAVEFORMS A BOARD



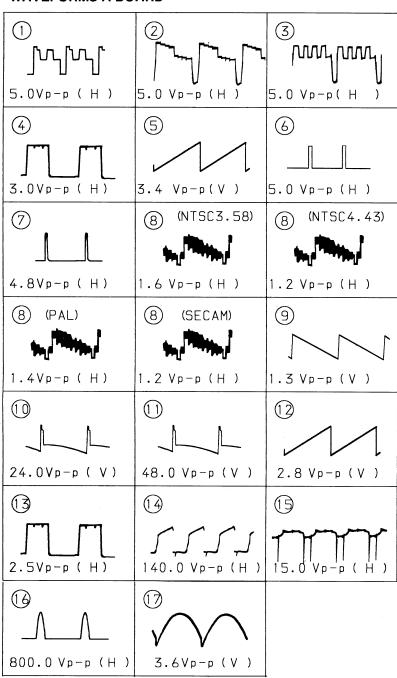
A BOARD IC801 TDA8175



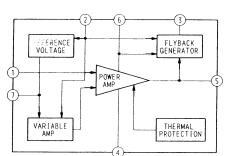
A BOARD IC102 TBA129



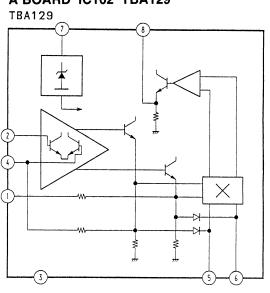
WAVEFORMS A BOARD



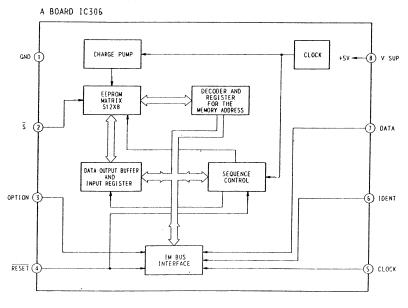
A BOARD IC801 TDA8175



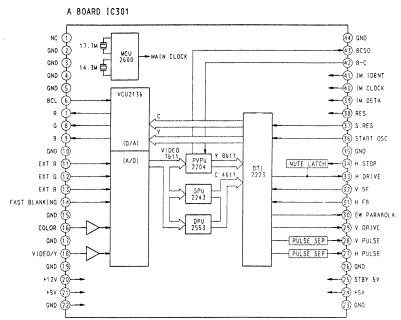
A BOARD IC102 TBA129



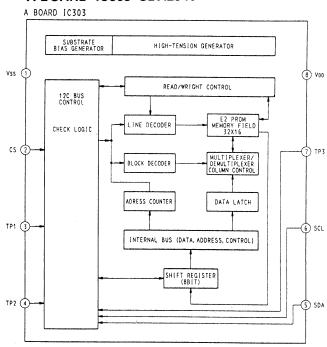
A BOARD IC306 NVM3060



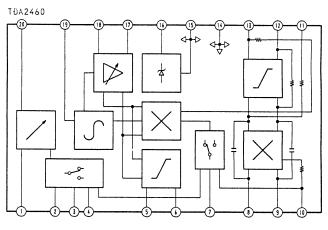
A BOARD IC301 STK951-120B



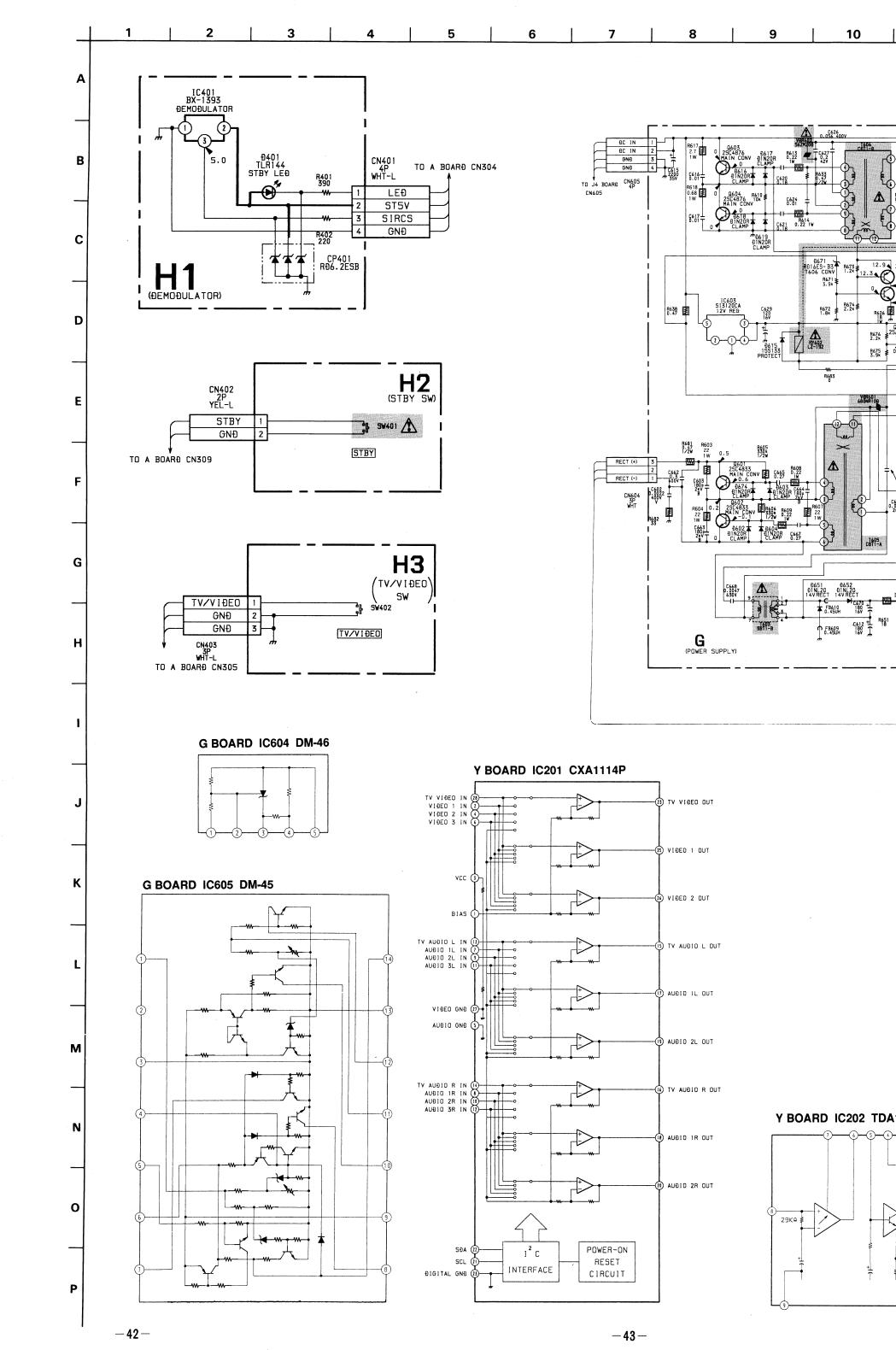
A BOARD IC303 SDA2546

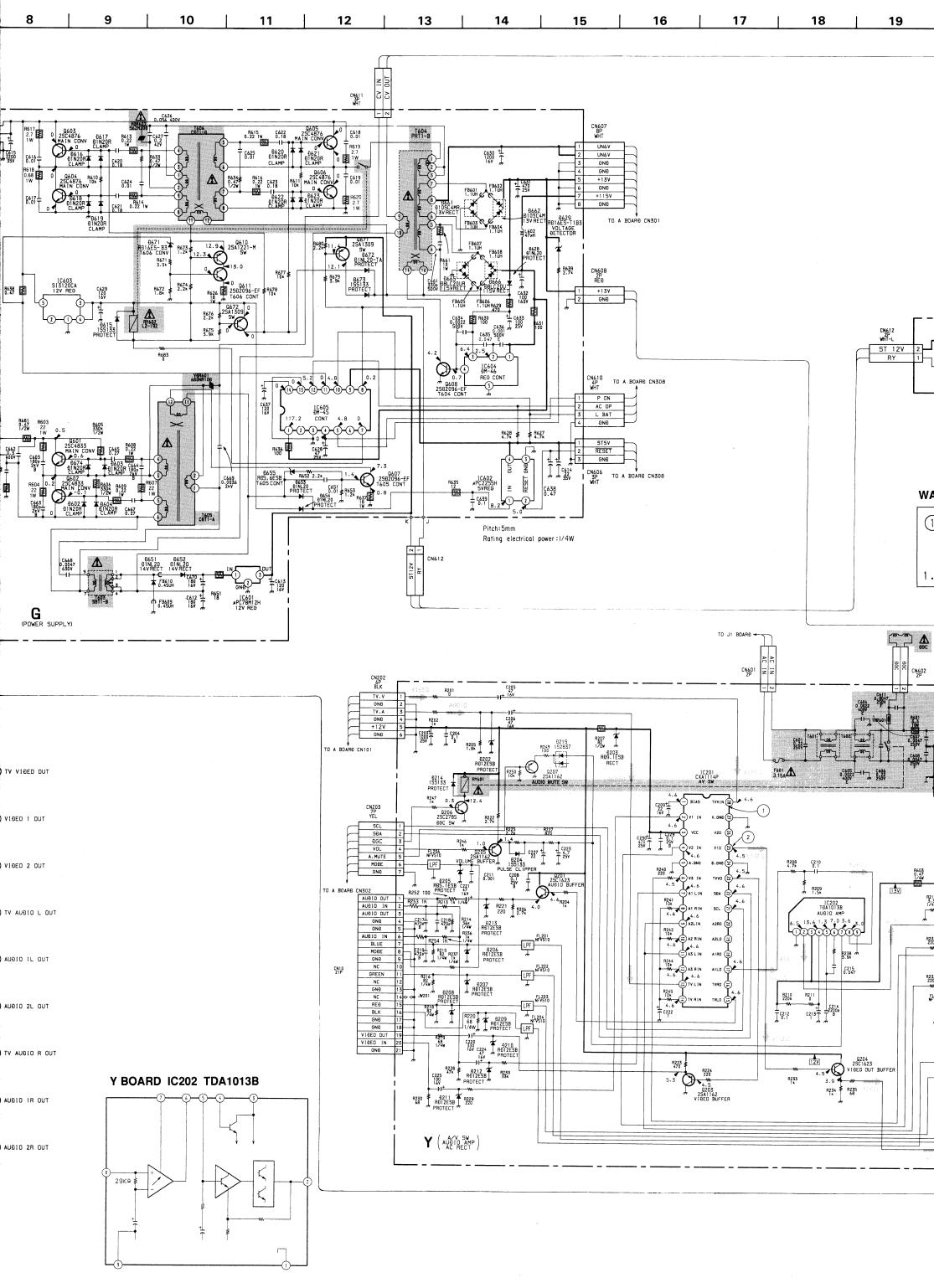


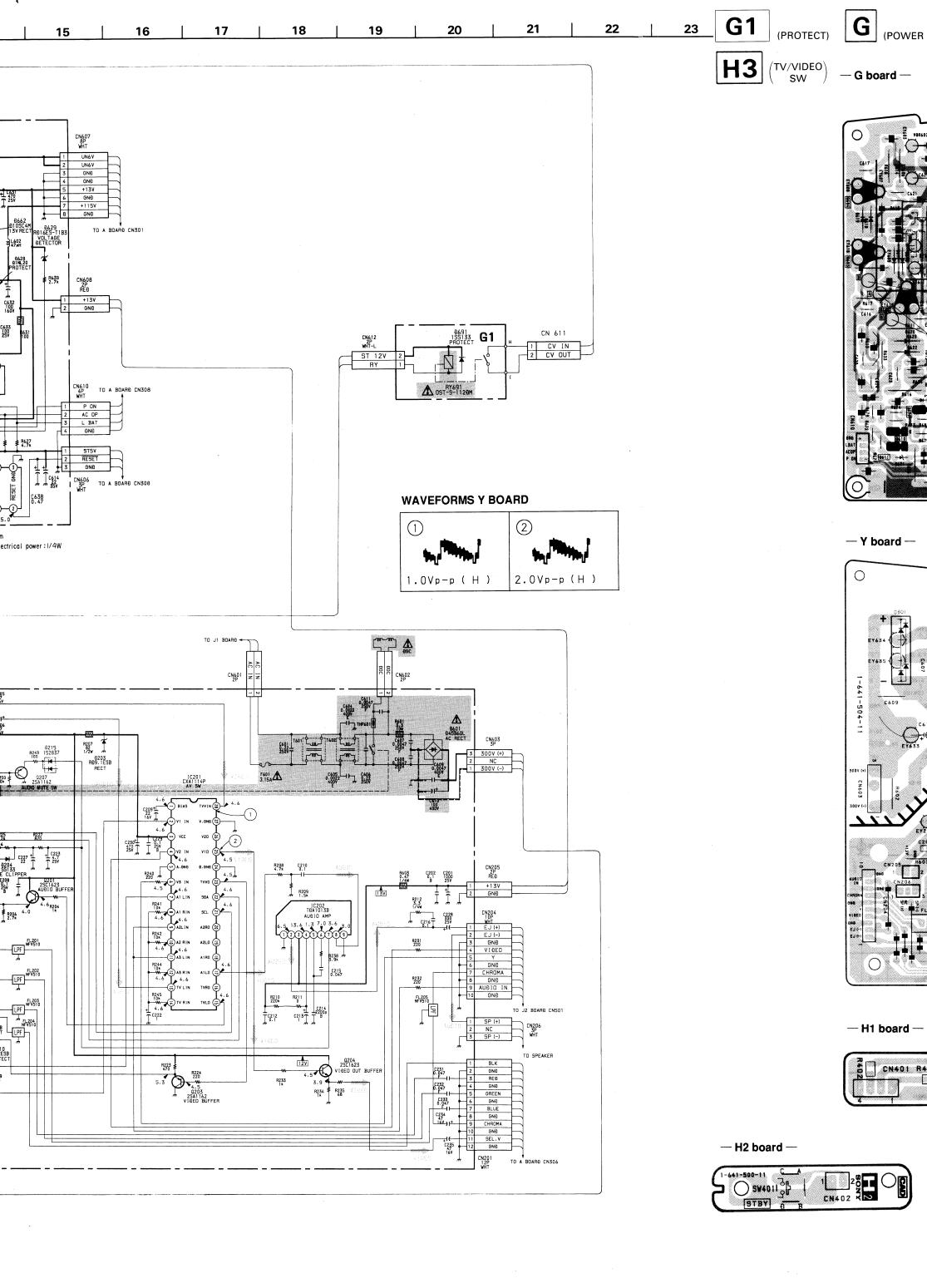
A BOARD IC101 TDA2460-2

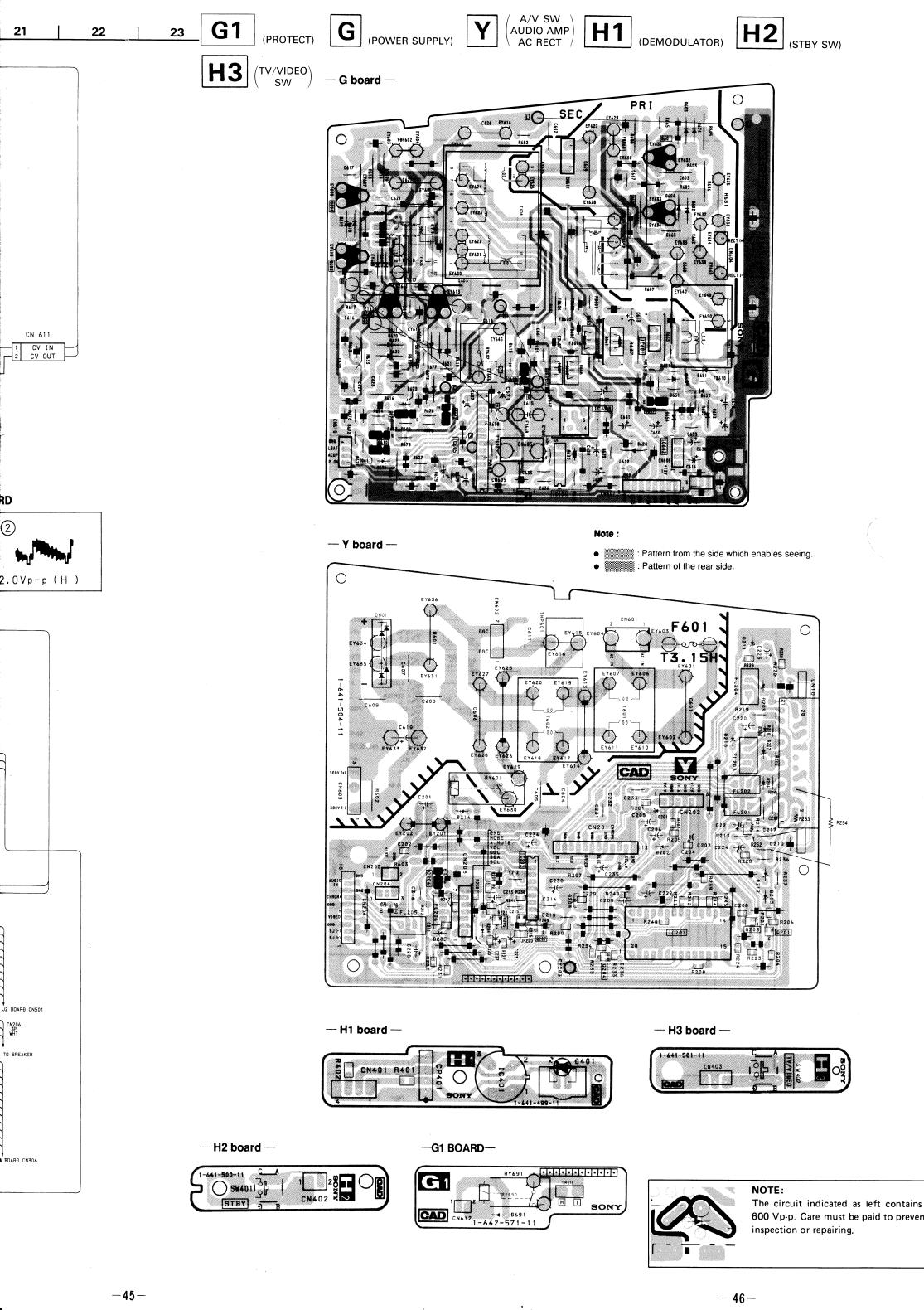


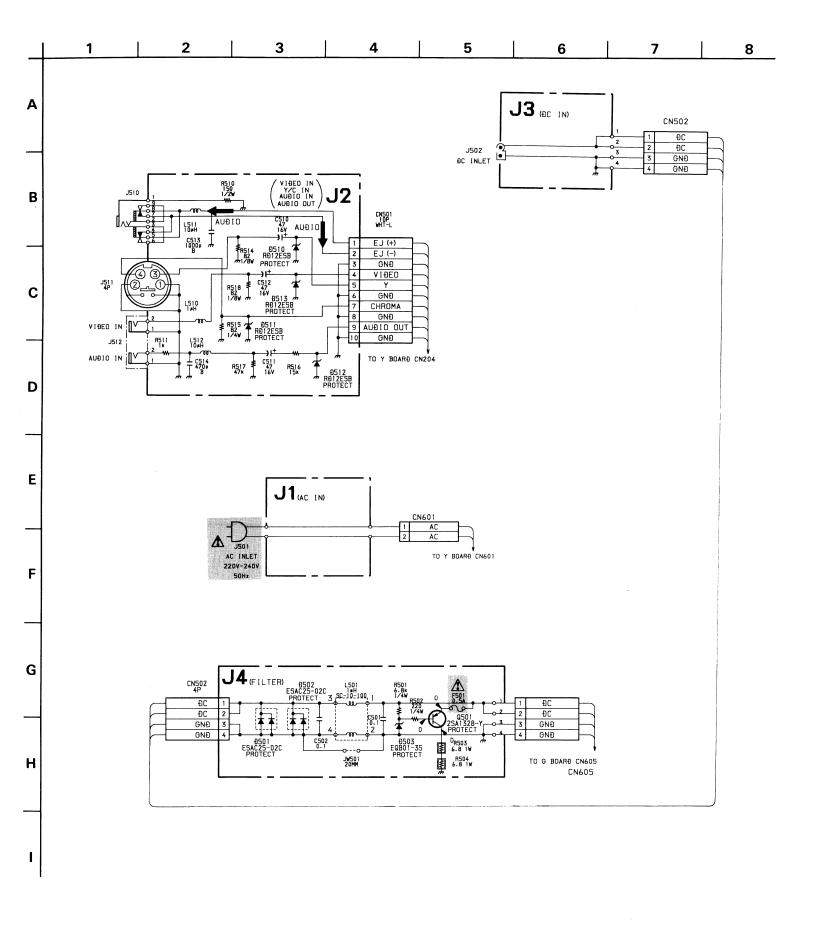
Δ

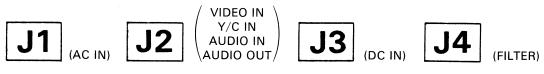




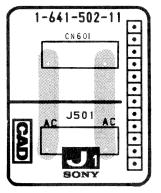




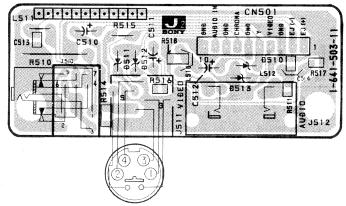




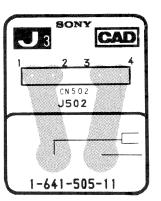
— J1 board —



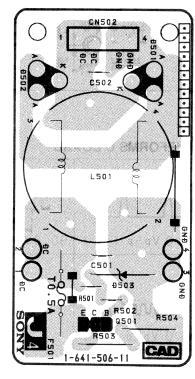
— J2 board —



- J3 board -

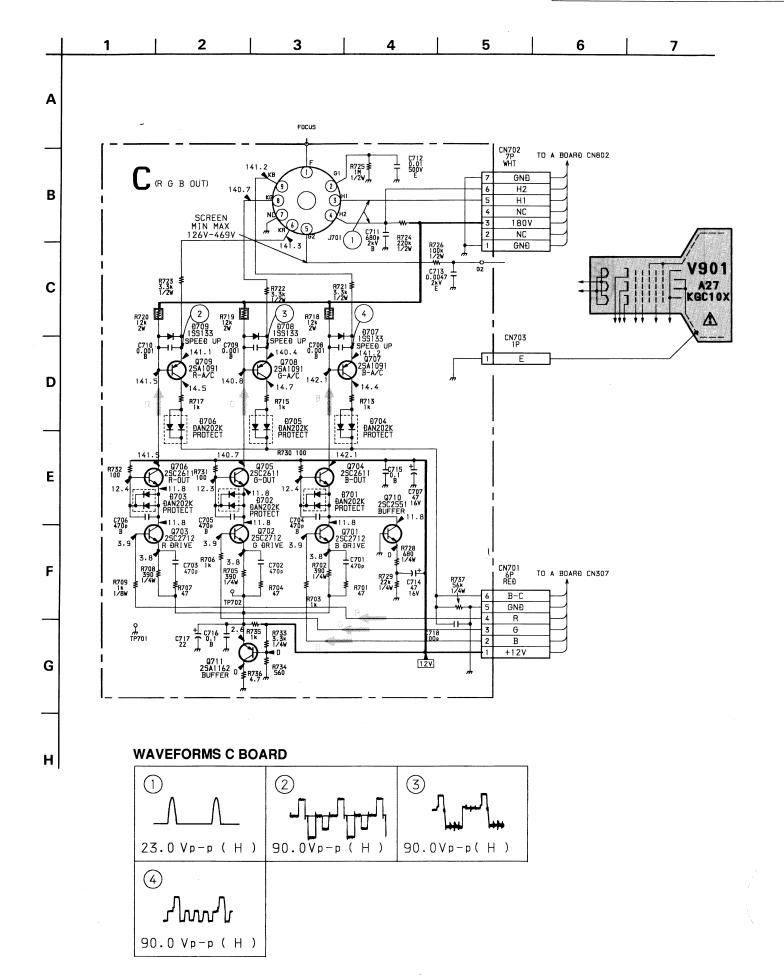


— J4 board —

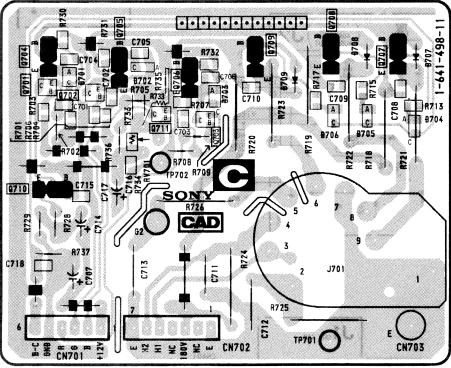






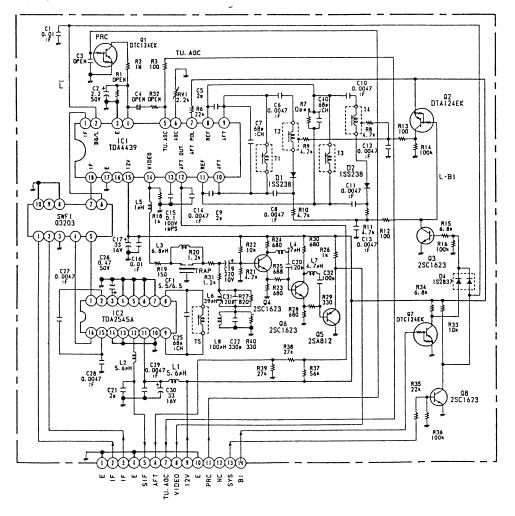




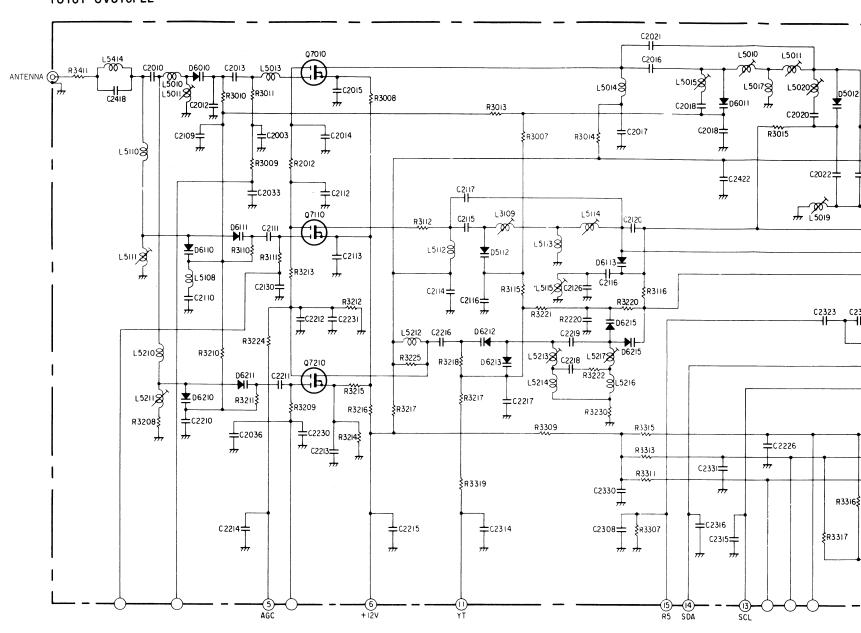


─A board─

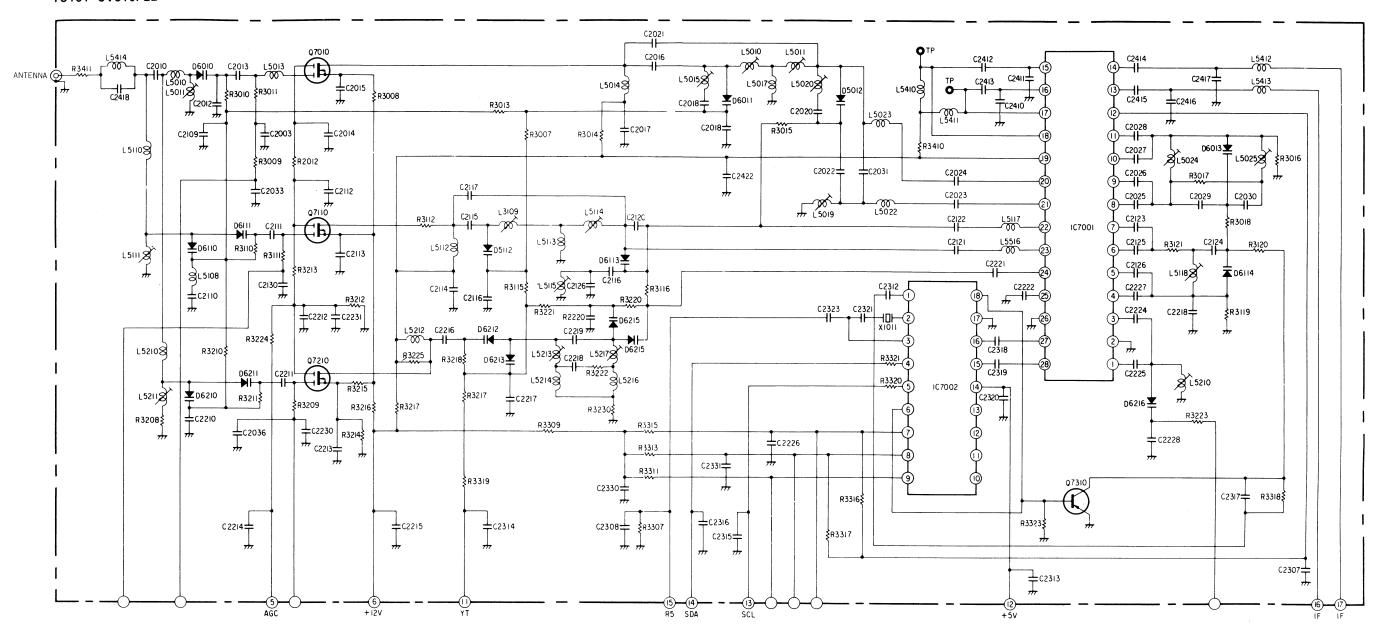
VIF101 IFG-389FS



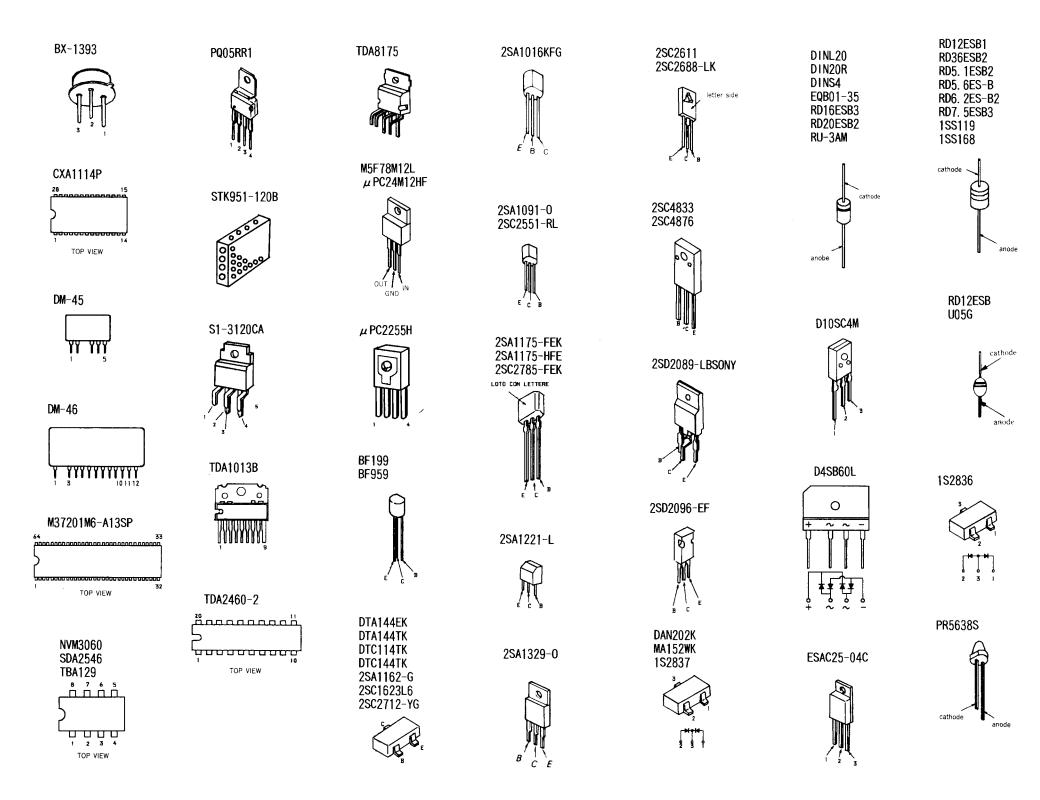
─A board─ TU101 UV816PLL



−A board− TU101 UV816PLL



5-4. SEMICONDUCTORS



SECTION 6 EXPLODED VIEWS

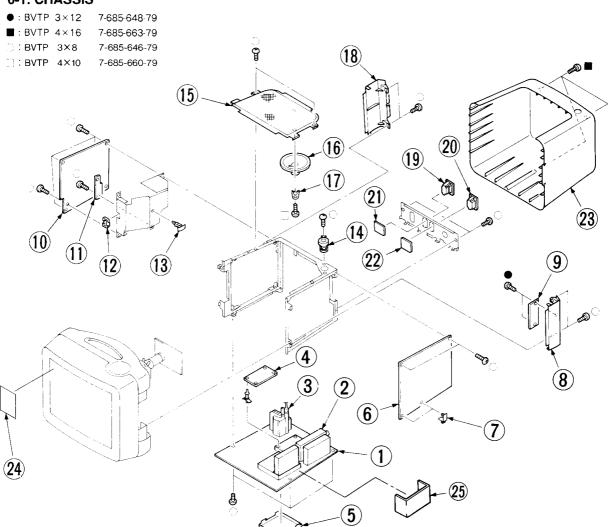
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*\pi" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

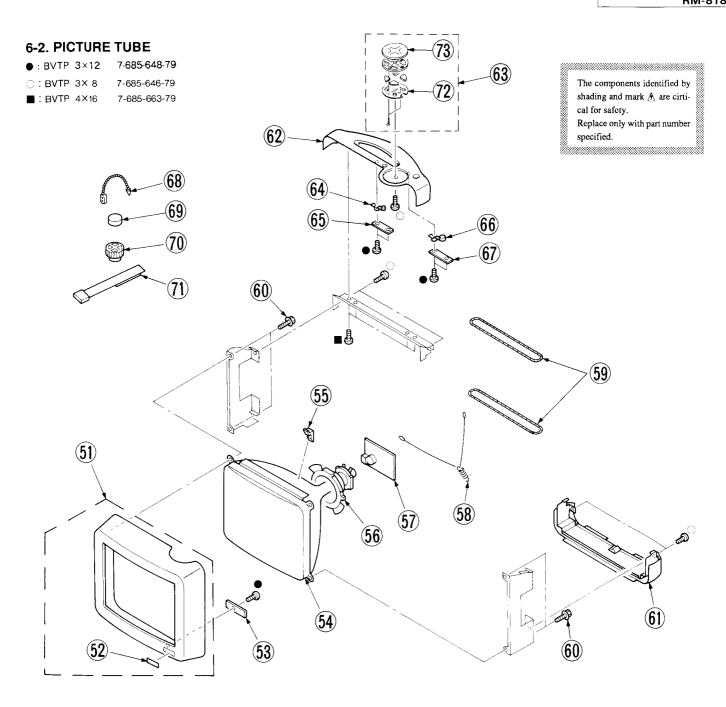
The components identified by shading and mark A are cirtical for safety.

Replace only with part number specified.

6-1. CHASSIS



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PAR	RT NO.	DESCRIPTION	REMARK
2	A BOARD, COMPLETE TUNER, ET (UY-816(PLL)) TRANSFORMER ASSY, FLYBACK J4 BOARD CASE (BOTTOM LID), SHIELD Y BOARD, COMPLETE HINGE, CIRCUIT BOARD PLATE (RIGHT), SIDE J2 BOARD G BOARD, COMPLETE G1 BOARD HOLDER, WIRE	11	14 4-0 15 X-4 16 1-5 17 *4-3 18 4-0 19 1-5 20 40 15 21 *1-6 22 *1-6 23 X-4 24 3-7	035-428-01 4030-349-1 544-187-11 038-106-00 054-10 054-10 054-11 0641-502-11	SUPPORT, PC BRACKET, ANTENNA PLATE ASSY, SP SPEAKER HOLDER, SPEAKER PLATE (LEFT), SIDE CONNECTOR (DC POWER) INLET, AC J3 BOARD J1 BOARD COVER ASSY, REAR STICKER, SONY SYMBOL (25) SHEET, COPPER	



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
55 3-704-495-01 56 A1-451-354-1 57 *A-1331-179-A 58 4-303-774-99 59 A1-426-590-11 60 4-365-808-01	COIL, DEMAGNETIZATION		66 67 68 69 70 71	*1-641-500-11	PLATE ASSY, TOP SWITCH BLOCK BUTTON (A), MULTI H3 BOARD BUTTON (B), MULTI H2 BOARD CLIP, LEAD WIRE MAGNET MAGNET MAGNET, ROTATABLE DISK; 15MM PERMALLOY ASSY, CONVERGENCE PW BOARD SHEET, RUBBER	72,73



SECTION 7 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark \triangle are cirtical for safety.

Replace only with part number specified.

- Items marked "*\pm" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

 $\begin{array}{cccc} {\sf CAPACITORS} & {\sf COILS} \\ \cdot \ {\sf MF} \colon \mu \ {\sf F} \ , \ {\sf PF} \colon \mu \ \mu \ \ {\sf F} & \cdot \ {\sf MMH} \colon m {\sf H} \ , \ {\sf UH} \colon \mu & {\sf H} \end{array}$

RESISTORS

- · All resistors are in ohms
- \cdot F: nonflammable

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	N -		REMARK
	*A-1296-910-A	A BOARD, COM				C309	1-163-101-00	CERAMIC CHI	22PF	5 %	50 V
	*4-341-751-01 *4-341-752-01	EYELET EYELET				C310 C311 C312 C313 C314	1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00	CERAMIC CHIE CERAMIC CHIE CERAMIC CHIE CERAMIC CHIE CERAMIC CHIE	P 22PF P 22PF P 22PF P 22PF P 22PF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C101		ACITOR>	COME	20%	FOU	C315	1-163-101-00	CERAMIC CHIE	22PF		50V
C101 C102 C103 C104 C105	1-126-233-11 1-126-103-11 1-136-165-00 1-136-165-00 1-126-103-11	ELECT FILM FILM ELECT	22MF 470MF 0.1MF 0.1MF 470MF	20% 20% 5% 5% 20%	50V 16V 50V 50V 16V	C316 C317 C318 C319	1-163-125-00 1-163-101-00 1-164-004-11 1-163-101-00	CERAMIC CHIE CERAMIC CHIE CERAMIC CHIE	P 22PF P 0.1MF P 22PF	5% 5% 5% 10% 5%	50V 50V 25V 50V
C106 C107	1-126-233-11	ELECT	22MF	20%	50V 50V	C320 C321 C322	1-163-101-00 1-163-101-00	CERAMIC CHIE	22PF 22PF	5% 5% 5%	50V 50V
C108 C109 C111	1-126-233-11 1-163-101-00 1-163-101-00 1-124-910-11 1-163-029-11	CERAMIC CHIP ELECT CERAMIC CHIP	22PF 22PF 47MF 0.0047MF	5% 5% 20%	50V 50V 50V		1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00 1-163-125-00	CERAMIC CHIP	22PF 22PF 220PF	5% 5% 5%	50V 50V 50V
C112 C113	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C325 C326	1-163-125-00 1-163-125-00	CERAMIC CHIP	220PF	5% 5%	50V 50V
C114 C115 C116	1-163-031-11 1-163-029-11 1-163-029-11 1-163-029-11 1-163-029-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0047MF 0.0047MF 0.0047MF		50V 50V 50V	C327 C328 C329	1-163-125-00 1-163-125-00 1-163-125-00	CERAMIC CHIP	220PF	5% 5% 5% 5% 5%	50V 50V 50V
C117						C330 C331	1-163-125-00 1-163-101-00	CERAMIC CHIP	22PF	5% 5% 5%	50 V 50 V
C118 C119 C120	1-163-029-11 1-163-029-11 1-163-029-11 1-163-029-11 1-163-029-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0047MF 0.0047MF 0.0047MF		50V 50V 50V	C332 C333 C334	1-163-125-00 1-163-101-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF	5% 5% 5%	50 V 50 V 50 V
C121						C335	1-163-125-00	CERAMIC CHIP	220PF		50V
C122 C123 C124	1-124-910-11 1-130-479-00 1-126-233-11	ELECT Mylar Elect	47MF 0.0047MF 22MF	20% 5% 20%	50V 50V 50V	C336 C337 C338	1-163-125-00 1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF	5% 5% 5%	50V 50V 50V
C125 C126	1-163-029-11	CERAMIC CHIP ELECT	0.0047MF		50V 50V	C339	1-163-125-00	CERAMIC CHIP	220PF	5% 5%	50V 50V
C127 C128	1-124-903-11	ELECT			50V	C340 C341	1-163-125-00 1-163-125-00	CERAMIC CHIP	220PF	5% 5%	50V 50V
C129 C130	1-124-903-11 1-163-031-11 1-163-031-11 1-130-479-00	CERAMIC CHIP CERAMIC CHIP MYLAR	0.01MF 0.01MF 0.0047MF	5%	50V 50V 50V	C342 C343 C344	1-163-125-00 1-163-125-00 1-163-125-00	CERAMIC CHIP	220PF	5% 5% 5% 5%	50V 50V 50V
C131	1-124-910-11	ELECT	47MF	20%	50V	C345	1-163-125-00	CERAMIC CHIP	220PF	5% 20%	50V
C132 C133 C134	1-124-910-11 1-136-161-00 1-136-153-00	ELECT FILM	47MF 0.047MF 0.01MF 0.01MF	20% 5% 5%	50V 50V 50V	C347	1-124-120-11 1-164-004-11	CERAMIC CHIP		10%	16V 25V
C135 C136	1-136-153-00 1-163-227-11	FILM CERAMIC CHIP	0.01MF 10PF	5% 5%	50V 50V 50V	C349	1-163-101-00 1-163-101-00	CERAMIC CHIP	22PF	5% 5%	50 V 50 V
C137 C301	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C351	1-163-101-00 1-163-101-00	CERAMIC CHIP	22PF	5% 5%	50V 50V
C302 C303	1-163-103-00 1-163-097-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	15PF	5% 5% 5%	50V 50V 50V	C352 C353 C354	1-163-101-00 1-163-101-00 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF	5% 5% 5%	50V 50V 50V
C304	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C355	1-163-101-00	CERAMIC CHIP	22PF	5% 5%	50V
C305 C306 C307	1-163-101-00 1-163-101-00 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF	5% 5% 5%	50V 50V 50V	C356 C357 C359	1-163-101-00 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF	5% 5% 10%	50V 50V 25V
C308	1-163-101-00	CERAMIC CHIP	22PF	5% 5%	50V	C360	1-164-004-11 1-126-101-11	ELECT CHIP	100MF	20%	16V

The components identified by shading and mark \bigwedge are cirtical for safety.

Replace only with part number specified.



DEE NO	DART NO	NESCRIPTION			DEMADU	TOUC NO	DADT NO	DEC CD LDT LON	DEMARK
	PART NO.				REMARK	KEF.NU.	PART NO.	DESCRIPTION	REMARK
C361 C362 C363 C364 C365	1-163-125-00 1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP			50V 50V 50V 50V 50V	CD101 CD102	<fil 1-404-751-11 1-404-684-11 1-527-840-00</fil 	TER> DISCRIMINATOR, CERAMIC DISCRIMINATOR, CERAMIC FILTER, CERAMIC FILTER, CERAMIC	
C366 C367 C368 C369 C370	1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF 22PF 22PF 22PF		25V 50V 50V 50V 50V	SWFIUI	1-567-569-11 1-404-711-11 1-404-712-11	SAWF	
C371 C372 C373 C379 C380	1-163-101-00 1-163-101-00 1-124-903-11 1-124-911-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT CERAMIC CHIP			50V 50V 50V 50V 25V	CN301 CN302	*1-564-509-11 *1-564-511-11 *1-564-510-11	NECTOR> PLUG, CONNECTOR 6P PLUG, CONNECTOR 8P PLUG, CONNECTOR 7P PLUG, CONNECTOR 5P	
C381 C382 C383 C384 C385	1-164-004-11 1-164-004-11 1-126-101-11 1-164-004-11	CERAMIC CHIP	0.1MF 0.1MF 100MF 0.1MF		50V 25V 25V 16V 25V	CN304 CN305 CN306 CN307	*1-564-507-11 *1-564-506-11 *1-564-515-11 *1-564-509-11	PLUG, CONNECTOR 4P PLUG, CONNECTOR 3P PLUG, CONNECTOR 12P PLUG, CONNECTOR 6P PLUG, CONNECTOR 7P	
C386 C387 C388 C389 C390	1-126-101-11	ELECT	100MF 100MF		25V 50V 50V 16V 16V	CN309 CN310 CN801	*1-564-505-11 *1-564-508-11 *1-508-766-00	PLUG, CONNECTOR 2P PLUG, CONNECTOR 5P PIN, CONNECTOR (5MM PITCH) 4P PLUG, CONNECTOR 7P	
C391 C392 C393 C394 C395	1-163-129-00 1-164-161-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	330PF 0.0022MF	5% 5% 5% 5% 10%	50V 50V 50V 50V 50V	CP303 CP304	1-232-680-11	POSITION CIRCUIT BLOCK> COMPOSITION CIRCUIT BLOCK COMPOSITION CIRCUIT BLOCK	
C396 C397 C801 C802 C803	1-163-006-11 1-163-003-11 1-124-922-11 1-136-165-00 1-124-911-11	CERAMIC CHIP CERAMIC CHIP ELECT FILM ELECT	U.1MF	10% 10% 20% 5% 20%	50V 50V 50V 50V 50V	D101 D102 D305	<pre><di0 8-719-400-18<="" 8-719-903-27="" pre=""></di0></pre>	DIODE 1SS168	
C804 C805 C807 C808 C809	1-163-141-00 1-124-634-11 1-124-925-11 1-106-220-00 1-101-821-00	MYLAR	0.001MF 1MF 2.2MF 0.1MF 0.0022MF	5% 20% 20% 10%	50V 250V 50V 100V 500V	D306 D310 D311 D312	8-719-104-34 8-719-109-93 8-719-400-18 8-719-400-18	DIODE 1S2836 DIODE RD6.2ES-B2 DIODE MA152WK	
C810 C813 C814 C815 C816	1-162-115-00 1-124-927-11 1-124-922-11 1-136-164-00 1-124-910-11	FILM	330PF 4.7MF 1000MF 0.082MF 47MF	10% 20% 20% 5% 20%	2KV 50V 50V 50V 50V	D314 D315 D801 D802	8-719-400-18 8-719-911-19 8-719-911-55 8-719-109-93	DIODE MA152WK DIODE 1SS119 DIODE U05G DIODE RD6.2ES-B2	
C817 C818 C819 C821 C822	1-126-101-11 1-124-927-11 1-106-367-00 1-124-912-11 1-136-105-00	ELECT Mylar Elect	100MF 4.7MF 0.01MF 330MF 0.33MF	20% 20% 10% 20% 5%	16V 50V 200V 50V 200V	D807 D810 D811 D812 D813		DIODE RU-3AM DIODE RD36ES-B2 DIODE RU-3AM DIODE MA152WK DIODE MA152WK	
C824 C827 A C830 C831 C832	1-101-821-00 1-136-070-11 1-102-030-00 1-123-024-21 1-124-120-11	FILM CERAMIC ELECT	0.0022MF 0.005MF 330PF 33MF 220MF	3% 10% 20%	500V 2KV 500V 160V 16V	D814	8-719-400-18 <ic> 8-759-014-34</ic>	DIODE MA152WK IC TDA2460-2	
C833 C834 C836 C837 C838	1-123-939-00 1-106-363-00 1-136-165-00 1-124-907-11 1-102-228-00	MYLAR Film Elect	10MF 0.0068MF 0.1MF 10MF 470PF	20% 5% 20% 10%	200V 200V 50V 50V 500V	IC102 IC301 IC302 IC303	8-759-003-90 8-749-922-99 8-759-047-35 8-759-748-56	IC TBA129 IC STK951-120B IC M37201M6-A13SP IC SDA2546	
C839 C841 C842	1-163-131-00 1-164-004-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	5% 10% 10%	50V 25V 25V	10305 10306	4-382-854-11	SCREW (M3X10), P, SW (+); IC304 IC UPC24M12HF SCREW (M3X10), P, SW (+); IC305 IC NVM3060	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	8-759-047-73 4-382-854-11	SCREW (M3X10), P, SW (+); IC801		B	<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
	<c01< td=""><td>L></td><td></td><td>JR1 JR2 JR3</td><td>1-216-296-00 1-216-295-00 1-216-295-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>0 0 0</td><td>5% 5% 5% 5%</td><td>1/8W 1/10W 1/10W</td></c01<>	L>		JR1 JR2 JR3	1-216-296-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5% 5%	1/8W 1/10W 1/10W
L101 L102 L103	1-408-413-00 1-408-426-00 1-408-403-00	L>		JR4 JR5	1-216-295-00 1-216-296-00 1-216-295-00	METAL GLAZE	0	-	1/8W 1/10W
L104 L105 L106	1-408-399-00 1-408-408-00	INDUCTOR 1.5UH INDUCTOR 8.2UH		JR6 JR7 JR11 JR12	1-216-296-00 1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5% 5%	1/8W 1/10W 1/8W 1/8W
L302 L303	1-408-417-00 1-408-417-00 1-543-813-21	INDUCTOR 220H INDUCTOR 47UH FILTER, EMI		JR17	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 0	5% 5% 5%	1/8W 1/8W
L304 L305 L306	1-543-813-21 1-543-813-21 1-543-813-21	FILTER, EMI FILTER, EMI		JR18 JR19 JR20	1-216-296-00 1-216-296-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/10W 1/8W
L307 L308 L309	1-543-813-21 1-412-520-21 1-412-533-21	FILTER, EMI INDUCTOR 3.9UH INDUCTOR 47UH		JR24 JR25	1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/10W
L801 L803 L804	1-460-026-11 1-407-365-00 1-412-530-11	COIL, HORIZONTAL LINEARITY COIL, CHOKE		JR26 JR27 JR28	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/8W 1/8W 1/8W
L805	1-407-500-00	INDUCTOR 4.7MMH		JR31 JR32 JR37	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5%	1/8W 1/8W 1/8W
Q101	<tra 8-729-903-30</tra 	NSISTOR> TRANSISTOR DTC144TK		JR38 JR39	1-216-296-00 1-216-295-00			5% 5%	1/8W 1/10W
0102 0103 0104 0105	8-729-903-29 8-729-901-59 8-729-000-12 8-729-120-28	TRANSISTOR DTA144TK TRANSISTOR BF199 TRANSISTOR BF959 TRANSISTOR 2SC1623-L5L6		JR40 JR41 JR42 JR43	1-216-295-00 1-216-296-00 1-216-296-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/8W 1/8W 1/10W 1/8W
Q106 Q107 Q108 Q109 Q110	8-729-120-28 8-729-120-28 8-729-120-28 8-729-903-30 8-729-120-28	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144TK TRANSISTOR 2SC1623-L5L6		JR45 JR46 JR47 JR47	1-216-296-00 1-216-295-00 1-216-295-00 1-216-295-00		0 0 0 0 0		1/8W 1/10W 1/10W 1/10W
Q111 Q306 Q307 Q308 Q309	8-729-120-28 8-729-903-30 8-729-119-77 8-729-901-06 8-729-903-30	FILTER, EMI FILTER, EMI FILTER, EMI FILTER, EMI FILTER, EMI INDUCTOR 3.9UH INDUCTOR 47UH COIL, HORIZONTAL LINEARITY COIL, CHOKE INDUCTOR 27UH INDUCTOR 4.7MMH NSISTOR> TRANSISTOR DTC144TK TRANSISTOR DTA144TK TRANSISTOR BF199 TRANSISTOR BF959 TRANSISTOR ZSC1623-L5L6 TRANSISTOR DTC144TK		JR50 JR51 JR52 JR53		METAL GLAZE			1/8W 1/8W 1/8W 1/10W 1/10W
Q310 Q311 Q314 Q315 Q316	8-729-120-28 8-729-230-46 8-729-902-99 8-729-902-99 8-729-902-99	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-YG TRANSISTOR DTC114TK TRANSISTOR DTC114TK TRANSISTOR DTC114TK		JR56 JR57 JR59	1-216-295-00 1-216-295-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W
Q317 Q804 Q805 Q806	8-729-902-99 8-729-119-80 8-729-820-50 8-729-231-95 4-382-854-11	TRANSISTOR DTC114TK TRANSISTOR 25C2688-LK TRANSISTOR 2SA1016KFG TRANSISTOR 2SD2089-LBSONY SCREW (M3X10), P, SW (+); Q806		JR60 JR61 JR62 JR63 JR66	1-216-296-00 1-216-295-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0 0	5% 5% 5% 5%	1/8W 1/10W 1/8W 1/10W 1/8W
9807 9808 9809 9810 9811	8-729-119-79 8-729-120-28 8-729-120-28 8-729-230-46 8-729-120-28	TRANSISTOR 2SC2785-FEK TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-YG TRANSISTOR 2SC1623-L5L6		JR67 JR70 JR71 JR72 JR73 JR74	1-216-296-00 1-216-296-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-296-00	METAL GLAZE	0 0 0 0 0	5% 5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/8W
Q813 Q814 Q815 Q816 Q1031	8~729-119-79 8~729-230-46 8~729-120-28 8~729-120-28 8~729-902-99	TRANSISTOR 2SC2785-FEK TRANSISTOR 2SA1162-YG TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC114TK		JR75 JR76 JR77 JR78	1-216-295-00 1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W
Q1032	8-729-902-99	TRANSISTOR DTC114TK		JR79 JR80	1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/10W



	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
JR81 JR82	1-216-295-00 1-216-295-00	METAL GLAZE	0	5% 5%	1/10W 1/10W		R310	1-216-049-00		1 K	5 %	1/10W	
JR83 JR85 JR86	1-216-296-00 1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/8W 1/8W 1/10W		R311 R312 R313	1-216-049-00 1-216-295-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 0 10 K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
JR87 JR88 JR89	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5%	1/8W 1/8W 1/8W		R314 R315 R317	1-216-073-00 1-216-089-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 47K 220		1/10W 1/10W 1/10W	
JR90 JR92	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5% 5%	1/8W 1/8W 1/8W		R318 R319 R320	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
JR93 JR94 JR95	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/8W 1/8W 1/8W		R321	1-216-089-00	METAL GLAZE	47K 1K		1/10W 1/10W	
R101 R102	1-216-033-00 1-216-295-00	METAL GLAZE METAL GLAZE	220	5% 5%	1/10W 1/10W		R323 R324 R325	1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R103 R104 R105	1-216-033-00 1-216-081-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 22K 18K	5% 5% 5%	1/10W 1/10W 1/10W		R326 R327	1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 220	5%	1/10W 1/10W	
R106 R108	1-216-065-00 1-216-025-00	METAL GLAZE	4.7K 100	5% 5%	1/10W 1/10W		R328 R329 R330	1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R109 R110 R111 R112	1-216-065-00 1-216-065-00 1-216-041-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 470 3.3K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R331 R332 R333	1-216-025-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 1K 1K	5% 5%	1/10W 1/10W 1/10W	
R113 R114	1-216-075-00	METAL GLAZE METAL GLAZE	12K	5% 5%	1/10W 1/10W		R334 R335 R336	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R115 R116 R117	1-216-065-00 1-216-049-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	68 4.7K 1K 3.9K	5%	1/10W 1/10W 1/10W		R337 R338	1-216-033-00 1-216-049-00	METAL GLAZE METAL GLAZE	220 1K	5% 5%	1/10W 1/10W	
R118 R119	1-216-057-00 1-216-033-00	METAL GLAZE METAL GLAZE	2.2K 220	5% 5% 5%	1/10W 1/10W		R339 R340 R341	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5%	1/10W 1/10W 1/10W	
R120 R121 R122	1-216-073-00 1-216-089-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 47K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W		R342 R343	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5% 5%	1/10W 1/10W	
R123 R124 R125	1-216-057-00 1-216-073-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 10K 47K	5% 5%	1/10W		R344 R345 R346	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5%	1/10W 1/10W 1/10W	
R126 R127 R128	1-216-089-00 1-216-059-00 1-216-041-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 470 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R347 R348 R349	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R129 R132	1-216-037-00 1-216-077-00	METAL GLAZE METAL GLAZE	330 15K	5% 5%	1/10W 1/10W		R350 R351	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W	
	1-216-059-00 1-216-041-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 470 100	5% 5% 5%	1/10W 1/10W 1/10W		R352 R353 R354	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R136 R137	1-216-085-00 1-216-049-00	METAL GLAZE METAL GLAZE	33K 1K	5% 5%	1/10W 1/10W		R355 R356	1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE	1K 100		1/10W 1/10W	
R138 R139 R140	1-216-089-00 1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 1K	5% 5% 5%	1/10W 1/10W 1/10W		R357 R358 R359	1-216-049-00 1-216-049-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 2 2 K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R141 R142 R143	1-216-049-00 1-216-043-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 560 1K	5% 5% 5%	1/10W 1/10W 1/10W		R360 R361 R362	1-216-081-00 1-216-081-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 390		1/10W 1/10W 1/10W	
R144 R145	1-216-049-00 1-216-071-00 1-216-055-00	METAL GLAZE METAL GLAZE	8.2K 1.8K	5% 5%	1/10W 1/10W 1/10W		R363 R364 R366	1-216-081-00 1-216-081-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 22K 220	5%%%%% 5%%%%% 5%%	1/10W 1/10W 1/10W 1/10W	
R301 R302 R303	1-216-089-00 1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 47K	5% 5% 5%	1/10W 1/10W 1/10W		R367	1-216-033-00	METAL GLAZE METAL GLAZE	220 10K		1/10W 1/10W	
R304 R305	1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE	47K 47K	5%	1/10W 1/10W		R371 R372 R377	1-216-073-00 1-216-073-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 1K	5%%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W	
R306 R307 R308	1-216-089-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W		R378 R379	1-216-033-00 1-216-051-00	METAL GLAZE	220 1.2K	5% 5%	1/10W 1/10W	
R309	1-216-089-00	METAL GLAZE	47K	5%	1/10W		R380	1-216-295-00	METAL GLAZE	0	5%	1/10W	

KV-M1100D RM-818





The components identified by shading and mark \triangle are cirtical for safety.

Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R381 R382	1-216-049-00 1-216-057-00	METAL GLAZE METAL GLAZE	1 K	5%	1/10W 1/10W		R825	1-249-449-11		1.5		1/4W F	7
R383 R384 R388	1-216-033-00	METAL GLAZE METAL GLAZE	2.2K 220 2.2K 100	5% 5% 5%	1/10W 1/10W 1/10W		R828 R831 R833	1-249-443-11 1-216-037-00 1-215-897-11	METAL GLAZE METAL OXIDE	0.47 330 6.8K 33K 2.2K	5% 5% 5%	1/4W F 1/10W 2W F	7
R389 R390 R391	1-216-025-00 1-216-025-00	METAL GLAZE	100 100	5% 5%	1/10W 1/10W		R834 R835	1-215-901-00 1-216-057-00	METAL OXIDE METAL GLAZE			2W F 1/10W	7
R391 R392 R393	1-216-049-00 1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 O K	5% 5% 5%	1/10W 1/10W 1/10W		R836 R837 R838 R839	1-216-352-11 1-247-699-11 1-249-448-11 1-215-882-00	METAL OXIDE CARBON CARBON METAL OXIDE	1.8 82 1.2	5% 5% 5%	1W F 1/4W F 1/4W F 2W F	7
R394 R395 R396	1-216-073-00 1-216-049-00 1-216-049-00		10K 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W		R840 R841	1-216-095-00	METAL GLAZE	22 82K 15K	5% 1%	1/10W 1/4W	
R397 R398	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W		R842 R843 R844	1-215-455-00 1-216-430-11 1-216-350-11	METAL METAL OXIDE METAL OXIDE	27K 390 1.2	1% 5% 5% 5%	1/4W 1W F 1W F	
R399 R400 R408		METAL GLAZE METAL GLAZE	100 1 K 220	5% 5% 5%	1/10W 1/10W 1/10W		R845	1-216-049-00	METAL GLAZE	1K 8.2K		1/10W	
R409 R410 R411	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 220 220	5% 5% 5%	1/10W 1/10W 1/10W		R847 R848 R849 R850	1-216-043-00 1-216-033-00 1-215-888-00 1-216-063-00	METAL OXIDE	560 220 220 3.9K	5% 5% 5% 5%	1/10W 1/10W 2W F 1/10W	7
R412 R413 R414	1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 10K	5% 5% 5%	1/10W 1/10W 1/10W		R851 R852	1-249-400-11 1-215-473-00			5% 1%	1/4W 1/4W	
R415 R416	1-216-073-00 1-216-073-00	METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W		R853 R854 R855	1-216-085-00 1-216-049-00 1-216-081-00	METAL GLAZE	33K 1K 22K	5% 5% 5%	1/10W 1/10W 1/10W	
R417 R418 R419 R420	1-216-025-00 1-216-065-00 1-216-073-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 4.7K 10K 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R857 R858 R859	1-216-089-00 1-249-437-11 1-216-073-00	CARBON	47K 47K 10K	5% 5% 5%	1/10W 1/4W 1/10W	
R421 R422	1-216-295-00 1-216-073-00	METAL GLAZE METAL GLAZE	0 10K	5% 5%	1/10W 1/10W		R860	1-216-049-00		1K	5%	1/10W 1/10W	
R423 R424 R426	1-216-067-00 1-216-089-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 47K 10K	5% 5% 5%	1/10W 1/10W 1/10W		SW301	<swi 1-571-532-21</swi 	TCH> -SWITCH, TACTI	l			
R427 R430	1-216-073-00 1-216-073-00	METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W			<tra< td=""><td>NSFORMER></td><td></td><td></td><td></td><td></td></tra<>	NSFORMER>				
R431 R432 R433	1-216-049-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 220 220	5% 5% 5%	1/10W 1/10W 1/10W		1801	1-404-806-11 1-437-195-11	COIL TRANSFORMER, TRANSFORMER A	HORIZO	NTAL D	RIVE	Jedanie kry
R434 R435 R436	1-216-033-00 1-216-069-00 1-216-073-00	METAL GLAZE METAL GLAZE	220 6.8K 10K	5%	1/10W 1/10W 1/10W		T803	1-424-646-11	TRANSFORMER,	FERRIT	Ë (H.P	CT)	
R438	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W		TU101 A	TUN> 1-465-301-11	ER> Tuner, et (uv	-816 (P	LL)))		
R439 R440 R441	1-216-049-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	1K 220 220	5% 5% 5%	1/10W 1/10W 1/10W				BLOCK>				
R442 R443 R444	1-216-049-00 1-216-061-00 1-216-073-00	METAL GLAZE	1 K 3.3 K 10 K	5%	1/10W 1/10W 1/10W		VIF101	1-464-962-11	IF BLOCK (IFG	-389FS)		
R801 R802 R805	1-249-449-11 1-216-073-00 1-216-077-00	CARBON METAL GLAZE	1.5 10K 15K	5% 5% 5% 5%	1/4W 1/10W 1/10W	F	X301		STAL> VIBRATOR, CER	AMIC			
R806 R808	1-216-081-00 1-249-451-11	METAL GLAZE CARBON	22K 2.2		1/10W 1/4W	F			******		*****	******	******
R809 R811 R812	1-216-073-00 1-215-889-00 1-249-459-11	CARBON	10K 330 12K	5% 5% 5%	1/10W 2W 1/4W	F F	1		G BOARD, COMP	****			
R813 R817 R819	1-216-071-00 1-216-373-11 1-216-442-00	METAL OXIDE	8.2K 2.2	5% 5%		F F		*4-341- 7 52-01	EYELET (CN609 EYELET (EY601 SCREW (M3X10)	, EY602)) ₩ (+)		
R820 R824	1-216-442-00 1-216-437-91 1-247-716-11	METAL OXIDE	39K 5.6K 1.8K			F							

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	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	<cap.< td=""><td>ACITOR></td><td></td><td></td><td></td><td>! ! !</td><td></td><td></td><td></td></cap.<>	ACITOR>				! ! !			
C602 C603 C612 C613 C614	1-161-742-00 1-162-130-11 1-128-125-91 1-126-516-11 1-124-786-11	CERAMIC CERAMIC ELECT ELECT ELECT	0.0022MF 180PF 180MF 120MF 22MF	20% 10% 20% 20% 20%	400V 2KV 16V 16V 35V	D622 D623 D628 D629 D651	8-719-510-48 8-719-510-48 8-719-510-26 8-719-110-46 8-719-510-26	DIODE D1N2OR DIODE D1N2OR DIODE D1NL2O DIODE RD16ES-B3 DIODE D1NL2O	
C615 C616 C617 C618 C619	1-126-777-51 1-136-153-00 1-136-153-00 1-136-153-00	ELECT FILM FILM FILM FILM	2200MF 0.01MF 0.01MF 0.01MF 0.01MF	20% 5% 5% 5% 5%	35V 50V 50V 50V 50V	D652 D653 D654 D655 D661	8-719-510-26 8-719-510-26 8-719-510-26 8-719-109-88 8-719-510-13	DIODE D1NL20 DIODE D1NL20 DIODE D1NL20 DIODE D1NL20 DIODE RD5.6ES-B1 DIODE D1OSC4MR	
C620 C621 C622 C623 C624	1-137-189-11 1-137-189-11 1-137-189-11 1-137-189-11	FILM FILM FILM FILM FILM	0.18MF 0.18MF 0.18MF 0.18MF 0.01MF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V	D662 D665 D666 D671	4-382-854-11 8-719-510-12 8-719-025-11 8-719-025-10 8-719-110-46	SCREW (M3X10), P, SW (+); D661 DIODE D10SC4M DIODE D8LC2OUR DIODE D8LC2OU DIODE RD16ES-B3	
C625 C626 C627 C628	1-136-153-00 1-137-572-21 1-137-552-11 1-124-126-00	FILM FILM FILM ELECT	0.01MF 0.056MF 0.23MF 47MF	5% 5% 5% 20%	50V 400V 42V 25V	D672 D673 D674	8-719-911-19 8-719-510-48	DIODE D1N2OR	
C629		ELECT	120MF	20%	16V	EDC01		RITE BEAD>	
C630 C631 C632 C633 C634		ELECT ELECT ELECT ELECT CERAMIC	1200MF 470MF 100MF 100MF 0.0022MF	20% 20% 20% 20%	16V 25V 160V 25V 500V	FB602 FB603 FB604	1-412-911-11 1-412-911-11 1-412-911-11	INDUCTOR, FERRITE BEAD	
C635 C636 C637 C638 C639	1-123-379-00	FILM CERAMIC ELECT ELECT FILM	0.047MF 0.001MF 120MF 0.47MF 0.1MF	5% 20% 20% 5%	50V 500V 16V 50V 50V	FB607 FB608 FB609	1-412-911-11 1-412-911-11 1-410-396-41	INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR	
C651 C661 C662 C663 C664	1-136-129-00	FILM CERAMIC FILM CERAMIC CERAMIC	0.01MF 330PF 0.3MF 180PF 180PF	5% 10% 5% 10% 10%	50V 500V 400V 2KV 2KV		1-543-194-00 1-543-194-00 <ic></ic>		
C665 C667 C668 C669 C670	1-136-170-00 1-136-170-00	FILM FILM FILM	0.27MF 0.27MF 0.0047MF 0.0036MF 180MF	5% 5% 5% 5% 20%	50V 50V 630V 2KV 16V	10602	8-759-604-39 4-382-854-01 8-759-047-18 8-749-921-99	IC M5F78M12L SCREW (M3X8), P, SW (+); IC601 IC UPC2255H IC SI-3120CA SCREW (M3X8), P, SW (+); IC603	
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td></td><td>1-809-703-11 1-809-704-11</td><td>MODULE, POWER DM-46 MODULE, POWER DM-45</td><td></td></con<>	NECTOR>					1-809-703-11 1-809-704-11	MODULE, POWER DM-46 MODULE, POWER DM-45	
CN604 *	*1-508-765-00 *1-580-838-11	PIN, CONNECTO	OR (5MM PITC OR (PC ROARD	CH) 3P			<c011< td=""><td></td><td></td></c011<>		
CN606 ×	*1-564-506-11 *1-564-511-11	PLUG, CONNEC' PLUG, CONNEC' PLUG, CONNEC'	TOR 3P TOR 8P	,		L602	1-412-533-21	_	
CN610 *	*1-564-507-11	PLUG, CONNECT	TOR 4P				<tra< td=""><td>NSISTOR></td><td></td></tra<>	NSISTOR>	
CMOTI	*1-564-321-00 <dio< td=""><td></td><td>UK ZP</td><td></td><td></td><td>Q601 Q602 Q603</td><td>8-729-010-85</td><td>TRANSISTOR 2SC4833 TRANSISTOR 2SC4833 TRANSISTOR 2SC4876</td><td></td></dio<>		UK ZP			Q601 Q602 Q603	8-729-010-85	TRANSISTOR 2SC4833 TRANSISTOR 2SC4833 TRANSISTOR 2SC4876	
D602		DIODE D1N2OR				Q604 Q605	8-729-011-74	TRANSISTOR 2SC4876 TRANSISTOR 2SC4876	
D603 D604 D615 D616	8-719-510-48 8-719-510-48 8-719-911-19 8-719-510-48	DIODE D1N2OR DIODE D1N2OR DIODE 1SS119 DIODE D1N2OR				Q606 Q607 Q608	8-729-920-92 8-729-920-92	TRANSISTOR 2SC4876 TRANSISTOR 2SD2096-EF TRANSISTOR 2SD2096-EF	
D617 D618	8-719-510-48 8-719-510-48	DIODE D1N2OR DIODE D1N2OR				Q610 Q611	8-729-122-12	TRANSISTOR 2SA1221-L TRANSISTOR 2SD2096-EF	
D619 D620	8-719-510-48 8-719-510-48 8-719-510-48	DIODE DINZOR DIODE DINZOR DIODE DINZOR DIODE DINZOR				0671 0672	8-729-119-76 8-729-119-76	TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE	

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The components identified by shading and mark \triangle are cirtical for safety.

Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF. NO	. PART NO.	DESCRIPTION	***************************************	REMARK
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></res<>	ISTOR>									
R603 R604 R605 R606 R607	1-215-859-00 1-215-859-00 1-202-844-00 1-202-844-00 1-215-859-00	METAL OXIDE METAL OXIDE SOLID SOLID METAL OXIDE	22 22 330K 330K 22	5% 5% 10% 10% 5%	1W 1W 1/2W 1/2W 1W	7 9 7	***** 	*1-642-571-11	G1 BOARD ********* EYELET (EY690, EY691)	*****	*********
R608 R609	1-216-341-11 1-216-341-11		0.22 0.22	5% 5%	1 W 1 W	F F		<con< td=""><td>INECTOR></td><td></td><td></td></con<>	INECTOR>		
R610 R611 R613	1-249-429-11 1-249-429-11 1-216-341-11	CARBON CARBON METAL OXIDE	10K 10K 0.22	5% 5% 5%	1/4W 1/4W 1W	F	CN612	*1-564-517-11	PLUG, CONNECTOR 2P		
R614 R615	1-216-341-11 1-216-341-11	METAL OXIDE	0.22 0.22	5% 5%	1 W 1 W	F F	† 	<dio< td=""><td>DDE></td><td></td><td></td></dio<>	DDE>		
R616 R617 R618	1-216-354-11	METAL OXIDE METAL OXIDE METAL OXIDE	0.22 2.7 0.68	5% 5% 5%	1 W 1 W 1 W	F F	D691	8-719-911-19	DIODE 1SS119		
R619	1-216-354-11	METAL OXIDE	2.7	5% 5%	1 W	F F	nucha	<rel< td=""><td></td><td>. 7615 4 1 4 604</td><td>Direction of the second</td></rel<>		. 7615 4 1 4 604	Direction of the second
R620 R626 R627	1-249-425-11	METAL OXIDE CARBON	2.7 18 4.7K	5% 5%	1W 1W 1/4W	r F			RELAY, POWER	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R628 R629	1-249-425-11 1-249-413-11	CARBON CARBON	4.7K 470	5% 5%	1/4W 1/4W	F		*A-1331-179-A	C BOARD, COMPLETE		
R630 R631 R633 R634	1-249-405-11 1-249-405-11 1-218-268-51 1-218-268-51	CARBON CARBON METAL	100 100 0.47 0.47	5%%%%% 5%%%%%% 5%%	1/4W 1/4W 1/2W 1/2W	F		<cap< td=""><td>ACITOR></td><td></td><td></td></cap<>	ACITOR>		
R635 R636 R637	1-249-394-11 1-249-405-11 1-216-422-11	CARBON	12 100 18	5% 5% 5%	1/4W	F F F	C701 C702 C703 C704	1-163-134-00	CERAMIC CHIP 470PF CERAMIC CHIP 510PF CERAMIC CHIP 470PF CERAMIC CHIP 470PF	5% 5% 5% 10%	50V 50V 50V 50V
R638 R639	1-249-377-11	CARBON CARBON	0.47 2.7K	5% 5%	1/4W 1/4W		C705	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
R651 R652 R653	1-249-396-11 1-249-421-11 1-249-418-11	CARBON CARBON	18 2.2K 1.2K	5% 5% 5%	1/4W 1/4W 1/4W	F	C706 C707 C708 C709	1-163-009-11	ELECT 47MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	10% 20% 10% 10%	50V 16V 50V 50V
R661 R671	1-215-857-11 1-249-424-11	METAL OXIDE CARBON	10 3.9K	5% 5%	1W 1/4W	F	C710	1-163-009-11 1-162-116-00	CERAMIC CHIP 0.001MF CERAMIC 680PF	10% 10%	50V 2KV
R672 R673 R674	1-249-420-11 1-249-418-11 1-249-421-11	CARBON CARBON CARBON	1.8K 1.2K 2.2K	5% 5% 5%	1/4W 1/4W 1/4W		C712 C713 C714	1-102-050-00	CERAMIC 0.01MF CERAMIC 0.0047MF ELECT 47MF	20%	500V 2KV 16V
R675 R676	1-249-424-11 1-249-421-11	CARBON	3.9K 2.2K	5% 5%	1/4W 1/4W		C715	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
R677 R678 R679	1-249-429-11 1-249-429-11 1-249-424-11	CARBON CARBON	10K 10K 3.9K	5% 5% 5%	1/4W 1/4W 1/4W		C716 C717 C718	1-126-233-11	CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 100PF	10% 20% 5%	25V 50V 50V
R680 R681	1-249-421-11 1-217-418-00	CARBON FUSIBLE	2.2K 0.47	5% 10%	1/4W 1/2W	F		< CON	NECTOR>	•	
R682	1-249-399-11	CARBON	33	5%	1/4W	F			PLUG, CONNECTOR 6P PLUG, CONNECTOR 7P		
Dec.	<rel< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><d10< td=""><td>DE></td><td></td><td></td></d10<></td></rel<>							<d10< td=""><td>DE></td><td></td><td></td></d10<>	DE>		
KY602 A	1-515-888-11	RELAY					D701 D702		DIODE MA152WK DIODE MA152WK		
T603 ∧		NSFORMER> Transformer,	FERRIT	E (SRT	'-1R)		D703 D704 D705	8-719-400-18 8-719-400-18 8-719-400-18	DIODE MA152WK DIODE MA152WK DIODE MA152WK		
T604 A T605 A	1-450-862-11 1-437-213-11	TRANSFORMER, TRANSFORMER, TRANSFORMER,	CONVER	TER (PE TER DE	(T1-B) (IVE		D706 D707 D708	8-719-400-18 8-719-911-19 8-719-911-19	DIODE MA152WK DIODE 1SS119		
	< V A R	ISTOR>					D709	8-719-911-19	DIODE 1SS119		
VDR601 VDR602	∆ 1-809-679-11 ∆ 1-809-678-11	VARISTOR VARISTOR			l. Arc		!	<jac< td=""><td>K></td><td></td><td></td></jac<>	K>		
		Trible Of Off					1				

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Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART	NO.	DESCRIPTION	N -			REMARK
J701	1-526-958-21	SOCKET, PICTU	RE TUB	E			1		< D16	DDE>				
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td><td>D401</td><td>8-719 4-035</td><td>9-907-87 5-418-01</td><td>DIODE PR563: HOLDER, LED</td><td>SS ; D401</td><td></td><td></td><td></td></tra<>	NSISTOR>					D401	8-719 4-035	9-907-87 5-418-01	DIODE PR563: HOLDER, LED	SS ; D401			
0701 0702 0703 0704 0705	8-729-230-49 8-729-230-49	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2712- C2712- C2611	· Y G			10401	8-749	<103 9-900-36	IC BX-1393				
Q706 Q707 Q708 Q709 Q710	8-729-326-11 8-729-200-17 8-729-200-17 8-729-200-17 8-729-209-03	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1091- A1091- A1091-	·0 ·0					5-039-00 5-033-00	SISTOR> METAL GLAZE METAL GLAZE			1/10 1/10	W
Q711	8-729-230-46	TRANSISTOR 2S	A1162-	YG						H2 BOARD	*****	*****	*****	******
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>******</td><td></td><td></td><td></td><td></td></res<>	ISTOR>								******				
R701 R702 R703 R704 R705	1-216-017-00 1-249-412-11 1-216-049-00 1-216-009-00 1-249-412-11	CARBON METAL GLAZE	47 390 1K 22 390	5% 5% 5%	1/10W 1/4W 1/10W 1/10W 1/4W		CN402	* 1−564	4-517-11	NNECTOR> PLUG, CONNE	CTOR 2P			
R706 R707 R708 R709 R713	1-216-049-00 1-216-017-00 1-249-412-11 1-249-417-11 1-216-049-00	METAL GLAZE METAL GLAZE CARBON CARBON METAL GLAZE	1K 47 390 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/4W 1/4W 1/4W		*****	*****	I-937-21 *******	TCH> SWITCH, KEY				
R715 R717 R718 R719 R720	1-216-049-00 1-216-049-00 1-216-463-00 1-216-463-00 1-216-463-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL OXIDE METAL OXIDE	1K 1K 12K 12K 12K	555555555555555555555555555555555555555	2W	F F			< C 0)	H3 BOARD ********				
R721 R722 R723 R724 R725	1-202-824-00 1-202-824-00 1-202-824-00 1-202-842-11 1-202-719-00	SOLID SOLID SOLID SOLID SOLID	3.3K 3.3K 3.3K 220K 1M	10% 10%	1/2W 1/2W 1/2W 1/2W 1/2W				<\$W]	PLUG, CONNECTOR'S TCH SWITCH, KEY				
R726 R728 R729 R730 R731	1-202-838-00 1-249-415-11 1-249-433-11 1-216-025-00 1-216-025-00	SOLID CARBON CARBON METAL GLAZE METAL GLAZE	100K 680 22K 100 100	10% 5% 5% 5%	1/2W 1/4W 1/4W 1/4W 1/10W 1/10W			*1-641	1-502-11	J1 BOARD *******				
R732 R733 R734 R735 R736	1-216-025-00 1-249-423-11 1-216-043-00 1-249-417-11 1-249-389-11	METAL GLAZE CARBON METAL GLAZE CARBON CARBON	100 3.3K 560 1K 4.7	5%% 5%% 5%% 5%%	1/10W 1/4W 1/10W 1/4W 1/4W			*1-641	I-505-11	J3 BOARD *******				
R737	1-249-438-11	CARBON	56K	5%	1/4W			*1~641	1-506-12	J4 BOARD ******				
	*********		*****	*****	******	******	!		20AT	MCITOD.				
	*1-641-499-11	*******					C501	1-136	CAF 6-165-00	ACITOR> FILM	0.1MF		5% 5%	50 V
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td></td><td>£ 0502</td><td>1-136</td><td>5~165-00</td><td>FILM</td><td>0.1MF</td><td></td><td>5%</td><td>50V</td></con<>	NECTOR>					£ 0502	1-136	5~165-00	FILM	0.1MF		5 %	50V
CN401	*1-564-519-11	PLUG, CONNECT	OR 4P						<00	INECTOR>				
	<com< td=""><td>POSITION CIRCU</td><td>IT BLO</td><td>OCK></td><td></td><td></td><td>CN502</td><td>*1-580</td><td>0-838-11</td><td>PIN, CONNECT</td><td>OR (PC</td><td>BOARD)</td><td>4P</td><td></td></com<>	POSITION CIRCU	IT BLO	OCK>			CN502	*1-580	0-838-11	PIN, CONNECT	OR (PC	BOARD)	4P	
CP401	1-232-680-11	COMPOSITION C	IRCU11	BLOCK					<d10< td=""><td>DE></td><td></td><td></td><td></td><td></td></d10<>	DE>				
							D501	8-719	9-912-51	DIODE ESAC2	5-04C			

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The components identified by shading and mark extstyle extstyle

specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	. PART NO.	DESCRIPTION	specific		REMARK
D502 D503	8-719-931-35	DIODE ESAC25-04C DIODE EQB01-35		R517 R518	1-216-089-00 1-216-172-00	METAL GLAZE	47K 5% 82 5%	1/10W 1/8W	
n pakadan di la - III	<fus< td=""><td></td><td></td><td>į.</td><td>**********</td><td></td><td></td><td>******</td><td>*******</td></fus<>			į.	**********			******	*******
P501 /	1- 532-279-11 1-533-223-11	FUSE, TIME-LAG 0.5A/250V CLIP, FUSE; F501		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*A-1394-338-A	Y BOARD, COMI			
	<01	I>		!	*4-341-751-01	EYELET (EY20) EY607, EY610, E	1~EY203, EY6 FY611 FY613	01,EY602 FY614 F	,EY606, Y617~
L501	1-424-648-11	TRANSFORMER, LINE FILTER (LFT)	3	*4-341-752-01	EY620, EY625~I EYELET (EY615	EY628, EY631 5, EY616, EY6	, EY636) 29, EY630	,EY632~
				1		EY635)			
Q501		NSISTOR> TRANSISTOR 2SA1329-0		· ·	<cap< td=""><td>ACITOR></td><td></td><td></td><td></td></cap<>	ACITOR>			
€301	a 129-200-00	TRANSISION 2581525 0		C201 C202	1-124-557-11 1-164-004-11			20% 1 0%	25V 25V
	<res< td=""><td>ISTOR></td><td></td><td>C203 C204</td><td>1-124-557-11 1-164-004-11</td><td>ELECT CERAMIC CHIP</td><td>1000MF 0.1MF</td><td>20% 10%</td><td>25V 25V</td></res<>	ISTOR>		C203 C204	1-124-557-11 1-164-004-11	ELECT CERAMIC CHIP	1000MF 0.1MF	20% 10%	25V 25V
R501 R502	1-249-427-11 1-249-409-11	CARBON 6.8K 5% 1/4 CARBON 220 5% 1/4 METAL OXIDE 6.8 5% 1W	W	€205	1-124-477-11	ELECT	47MF	20%	16V
R503 R504	1-216-359-00 1-216-359-00	METAL OXIDE 6.8 5% 1W METAL OXIDE 6.8 5% 1W	F F	C206 C208		CERAMIC CHIP		20% 10%	16V 25V
*****	*******	**********	*******	C209 C210 C211	1-124-234-00 1-136-165-00 1-163-141-00	ELECT FILM CERAMIC CHIP	22MF 0.1MF	20% 5% 5%	16V 50V 50V
	*1-641-503-11	J2 BOARD		C211	1-136-165-00	FILM	0.1MF	5% 5%	50V
				C213 C214	1-124-903-11 1-102-121-00	ELECT CERAMIC	1MF 0.0022MF	20% 10%	50V 50V
0510		ACITOR>		C215 C216	1-130-491-00 1-136-165-00	MYLAR FILM	0.047MF 0.1MF	5 % 5 %	50V 50V
C510 C511	1-124-477-11 1-124-477-11	ELECT 47MF 20%	16V 16V	C217	1-102-114-00		470PF	10%	50V
C512 C513 C514	1-124-477-11 1-163-009-11 1-163-005-11	ELECT 47MF 20% CERAMIC CHIP 0.001MF 10% CERAMIC CHIP 470PF 10%	16V 50V 50V	C218 C219 C220		CERAMIC CERAMIC ELECT	470PF 470PF 330MF	10% 10% 20%	50V 50V 16V
0314	1 100 000 11	CERTIFIC CHIL 41001 10%	301	C221	1-124-477-11	ELECT	47MF	20%	16V
		NECTOR>		C222 C223	1-126-160-11 1-126-163-11	ELECT	1MF 4.7MF	20% 20%	50V 25V
CN501	*1-564-525-11	PLUG, CONNECTOR 10P		C224 C225	1-124-477-11 1-126-101-11	ELECT	47MF 100MF	20% 20%	16V 16V
	<dio< td=""><td>DE></td><td></td><td>C227</td><td>1-126-233-11 1-124-479-11</td><td>ELECT</td><td>22MF 330MF</td><td>20% 20%</td><td>50V 25V</td></dio<>	DE>		C227	1-126-233-11 1-124-479-11	ELECT	22MF 330MF	20% 20%	50V 25V
D510 D511	8-719-110-30 8-719-110-30	DIODE RD12ES-B1 DIODE RD12ES-B1		C229 C230	1-164-004-11 1-126-103-11	CERAMIC CHIP		10% 20%	25V 16V
D512 D513	8-719-110-30	DIODE RD12ES-B1 DIODE RD12ES-B1		C231 C232	1-101-006-00 1-101-006-00	CERAMIC CERAMIC	0.047MF 0.047MF	20%	50V 50V
	. ***	P ₂		C233	1-101-006-00	CERAMIC	0.047MF	008	50V
J510	<jac 1-562-837-21</jac 	K> Jack		C234 C235	1-124-477-11 1-124-589-11 A.1-136-360-51	ELECT ELECT Englisher (1987)	47MF 47MF 0.22MF	20% 20% - 20%	16V 16V 250V
J511 J512	1-565-666-12 1-563-500-21	TERMINAL, S 4P JACK BLOCK, PIN (L TYPE) 2P			&1-164-246-11		0.0022MF	20%	400v
	1 303 300 21	Office Bushes, The (E-1112) 21		C607	<u>M</u> 1-136-360-51 M1-161-964-61	CERAMIC	0.22MF 0.0047MF	20%	250V 250V
1510	<001				<u>∧</u> 1-161-964-61 <u>∧</u> 1-162-578-51		0.0047MF 0.0047MF	20%	250V 400V
L510 L511	1-408-397-00 1-408-409-00	INDUCTOR 1UH INDUCTOR 1OUH			∆ 1-125-497-11				400V
L512	1-408-409-00	INDUCTOR 10UH		CULL	∆ 1-161-964-61	· connect to the second	o.vuq(Mr	5,7680, 83 1 (1990))	250V
5 -	< RES	ISTOR>				NECTOR>			
R510 R511	1-247-741-11 1-216-049-00	CARBON 150 5% 1/2 METAL GLAZE 1K 5% 1/1	OW		1-561-534-00 *1-564-515-11	PLUG, CONNECT			
R514 R515 R516	1-216-172-00 1-249-404-00	METAL GLAZE 82 5% 1/8 CARBON 82 5% 1/4 METAL GLAZE 15K 5% 1/1	W			PLUG, CONNECT PLUG, CONNECT			
"710	1-216-077-00	METAL GLAZE 15K 5% 1/1	UW	1					

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REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK	
CN204 *1-564-513-11 CN205 *1-564-505-11 CN206 *1-564-506-11 CN601 *1-580-843-11 CN602 *1-508-786-00	PLUG, CONNECTOR 10P PLUG, CONNECTOR 2P PLUG, CONNECTOR 3P PIN, CONNECTOR (POWER) PIN, CONNECTOR (5MM PITCH) 2P		R206 R207 R208 R209 R210	1-216-059-00 1-247-738-11 1-216-065-00 1-216-053-00 1-216-105-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 5% 82 5% 4.7K 5% 1.5K 5% 220K 5%	1/10W 1/2W F 1/10W 1/10W 1/10W	
CN602 *1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P CN603 *1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P		R211 R212 R213 R214 R215	1-216-295-00 1-249-387-11 1-249-417-11 1-249-438-11 1-249-404-00	METAL CLASE	n 5%	1/10W 1/4W 1/4W 1/4W 1/4W		
D202 8-719-110-30 D203 8-719-110-13 D204 8-719-911-19 D205 8-719-109-85 D206 8-719-110-30	DIODE RD12ES-B1 DIODE RD9.1ES-B2 DIODE 1SS119 DIODE RD5.1ES-B2 DIODE RD12ES-B1		R216 R218 R219 R220 R221	1-249-404-00 1-249-404-00 1-249-404-00 1-249-403-11 1-216-033-00	CARBON CARBON CARBON CARBON	82 5% 82 5% 82 5% 68 5% 220 5%	1/4W 1/4W 1/4W 1/4W 1/10W	
D207 8-719-110-30 D208 8-719-110-30 D209 8-719-110-30 D210 8-719-110-30 D211 8-719-110-30	DIODE RD12ES-B1 DIODE RD12ES-B1 DIODE RD12ES-B1 DIODE RD12ES-B1 DIODE RD12ES-B1		R222 R223 R224 R225 R227	1-216-059-00 1-216-041-00 1-216-033-00 1-216-057-00 1-216-047-00		2.7K 5% 470 5% 220 5% 2.2K 5% 820 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
D212 8-719-110-30 D213 8-719-110-30 D214 8-719-911-19 D215 8-719-400-18 D601 A 8-719-510-53	DIODE RD12ES-B1 DIODE RD12ES-B1 DIODE 1SS119 DIODE MA152WK DIODE D4SB6OL		R228 R229 R230 R231 R232	1-216-089-00 1-216-295-00 1-216-023-00 1-216-295-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		1/10W 1/10W 1/10W 1/10W 1/10W	
1-555-225-11	FUSE (H.B.C.) 3.15A/250V CLIP, FUSE; F601		R234 R235 R236	1-216-049-00 1-216-049-00 1-216-021-00 1-249-417-11 1-249-417-11	METAL GLAZE	1K 5% 1K 5% 68 5% 1K 5% 1K 5%	1/10W 1/10W 1/10W 1/4W 1/4W	
<pre>FL201 1-424-261-11 FL202 1-424-261-11</pre>	TER> FILTER, SIGNAL LINE NOISE		R238 R239 R240	1-216-063-00 1-216-085-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 5% 33K 5% 220 5% 10K 5% 10K 5%	1/10W 1/10W 1/10W	
FL203 1-424-261-11 FL204 1-424-261-11 FL205 1-424-261-11	FILTER, SIGNAL LINE NOISE FILTER, SIGNAL LINE NOISE FILTER, SIGNAL LINE NOISE		R241 R242	1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE		1/10W	
FL206 1-424-261-11 <1C>	TER> FILTER, SIGNAL LINE NOISE		R245 R246 R247 R249	1-216-073-00 1-216-049-00 1-216-049-00 1-216-025-00	METAL GLAZE	10K 5% 10K 5% 1K 5% 1K 5% 100 5%	1/10W 1/10W 1/10W 1/10W	
IC201 8-752-053-17 IC202 8-759-041-82	IC CXA1114P IC TDA1013B		R250 R251 R252	1-216-073-00 1-216-089-00 1-216-025-00 1-216-049-00 1-216-049-00	METAL GLAZE	10K 5% 47K 5% 100 5% 1K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
<001 L201 1-412-533-21			R601 4 R603	1-205-909-11 1-249-443-11	WIREWOUND CARBON	3.3 5% 0.47 5%	10 0 F 1/4W F	
<transistor></transistor>			<relay></relay>					
Q201 8-729-120-28 TRANSISTOR 2SC1623-L5L6 Q203 8-729-230-46 TRANSISTOR 2SA1162-YG Q204 8-729-120-28 TRANSISTOR 2SC1623-L5L6			RY601 A	RYGO1 & 1-515-579-11 RELAY				
Q206 8-729-119-79	TRANSISTOR 2SA1162-YG TRANSISTOR 2SC2785-FEK TRANSISTOR 2SA1162-YG		T601 A 1-424-391-11 TRANSFORMER, LINE FILTER T602 A 1-424-391-11 TRANSFORMER, LINE FILTER					
<resistor></resistor>			<thermistor></thermistor>					
R201 1-216-295-00 R202 1-216-049-00 R204 1-216-049-00	R202 1-216-049-00 METAL GLAZE 1K 5% 1/10W R204 1-216-049-00 METAL GLAZE 1K 5% 1/10W							

KV-M1100D RM-818



REF. NO. PART NO. DESCRIPTION *9-902-396-01 PW BOARD ****** 9-902-398-01 SWITCH, TACTIL ****************** MISCELLANEOUS Δ1-426-590-11 COIL, DEMAGNETIZATION
Δ1-451-354-11 DEFLECTION YOKE (Y11SLA)
1-452-094-00 MAGNET, ROTATABLE DISK; 15MM φ
1-452-512-11 MAGNET
1-466-678-11 SWITCH BLOCK

REMARK

REMARK

ACCESSORIES AND PACKING MATERIALS

J501 <u>A.1-540-054-11</u> INLET, AC 1-561-530-00 CONNECTOR (DC POWER)

SP901 1-544-187-11 SPEAKER V901 A8-735-821-05 PICTURE TUBE (A27KGC10X) *******************

DESCRIPTION PART NO. 1-501-397-41 ANTENNA, TELESCOPIC (AN-18G) A.1-532-325-11 FUSE, TIME-LAG 6.3A/250V A.1-690-827-11 CORD SET, POWER A.1-690-828-11 CORD, DC POWER *3-704-301-01 BAG (STANDARD), PROTECTION

3-754-681-11 MANUAL, INSTRUCTION *4-035-665-01 CUSHION (UPPER) (ASSY) *4-035-666-01 CUSHION (LOWER) (ASSY) *4-035-667-01 TRAY *4-035-675-01 INDIVIDUAL CARTON

REMOTE COMMANDER

1-693-075-11 REMOTE COMMANDER (RM-818) 9-900-029-01 COVER, BATTERY (FOR RM-818)

The components identified by shading and mark A are cirtical for safety. Replace only with part number specified.